ANDREI BENEA

andrei.benea89@gmail.com | 812-929-9458 | +40-757-604814

LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Results-driven junior software developer with a unique combination of technical expertise and analytical problem-solving skills cultivated through both legal education and hands-on software development. Completed an Associate of Science in Software Development with a 4.0 GPA (Summa Cum Laude) while building practical Python applications and full-stack web solutions.

Brings 7+ years of professional experience in requirements management, quality assurance, and cross-functional team coordination within German business environments, working with German companies, products, and regulatory frameworks. Fluent in English and German (C1), with proven ability to translate complex business needs into technical solutions across multicultural teams.

Specialized in Python development with experience in Django, Flask, and automated testing frameworks, complemented by proficiency in JavaScript, SQL, and modern web technologies.

Successfully transitioned from legal background (Master's in Intellectual Property Law) into software development, bringing unique perspective on software patents, licensing, and regulatory compliance to technical projects.

Demonstrated leadership through multiple campus organizations and a passion for continuous learning through project-based development.

EDUCATION

Ivy Tech Community College   **Associate of Science in Software Development**

Major: Software Development   **GPA: 4.0**   *December 2025 | Bloomington, Indiana*

- Relevant Coursework:
  - Object-Oriented Programming, Data Structures, Web Development, Database Design, Software Engineering Principles
- Academic Honors:
  - **Summa Cum Laude**:
    - Technical Certificate in Software Development
    - Technical Certificate in Indiana College Core
    - Certificate in Software Application Developer
- Google IT Challenge Participant (Final Round, 2025)

"Dimitrie Cantemir" Christian University   **Master of Law**

Specialization: Intellectual Property Law   *June 2013 | Cluj-Napoca, Romania*

- Developed strong analytical and research skills with focus on software patents, licensing, and digital rights management

"Dimitrie Cantemir" Christian University   **Bachelor of Law**

Specialization: Legal Studies   *June 2012 | Cluj-Napoca, Romania*

- Built foundation in complex problem-solving, critical thinking, and structured analysis applicable to software development

"George Coșbuc" National College   **High School Diploma**

Specialization: Philology   *June 2008 | Cluj-Napoca, Romania*

- Completed intensive German language program, earning Deutsches Sprachdiplom (German C1 certification)
- Developed strong foundation in languages and communication that supports technical documentation and cross-cultural collaboration

PROFESSIONAL CERTIFICATIONS

PCAP™ – Certified Associate Python Programmer Python Institute
Bloomington, Indiana *December 2025*

Technical Certificate in Software Development Ivy Tech Community College
Bloomington, Indiana | Summa Cum Laude *December 2025*

Technical Certificate in Indiana College Core Ivy Tech Community College
Bloomington, Indiana | Summa Cum Laude *August 2025*

Certificate in Software Application Developer Ivy Tech Community College
Bloomington, Indiana | Summa Cum Laude *May 2025*

Frontend Development Certificate Kreativstorm
Berlin, Germany *October 2023*

TOEFL iBT (English C1) Educational Testing Service (ETS)
Cluj-Napoca, Romania *May 2023*

QA Manual Testing Certificate Informal School of IT
Cluj-Napoca, Romania *May 2023*

Deutsches Sprachdiplom (German C1) Kultusministerkonferenz (KMK)
Cluj-Napoca, Romania *May 2008*

TECHNICAL SKILLS

Programming Languages

Python (Primary), JavaScript, HTML5, CSS3, SQL, Bash, GDScript

Frameworks & Libraries

Django, Django REST Framework, Flask, Tkinter/ttk, Godot Engine, Nightwatch.js

Tools & Technologies

Git/GitHub, Postman, MySQL, PythonAnywhere, PyCharm, Visual Studio Code, SoapUI, Jira, Confluence, JSON, XML, Markdown, Rich (Python library)

Quality Assurance & Testing

Automated UI Testing, API Testing, Regression Testing, Mobile Testing, Test Planning, Test Case Design, SQL Data Validation

Project Management & Methodologies

Agile/Scrum, Requirements Management, Project Lifecycle Management, Cross-functional Team Coordination, Technical Documentation

PROFESSIONAL EXPERIENCE

Requirements Manager   **P4B Group**   **HMM Deutschland GmbH**

September 2016 - April 2023   *Cluj-Napoca, Romania*   *Moers, Germany*

- Managed full software development lifecycle for multiple enterprise-scale digital products for German client HMM Deutschland GmbH, including health insurance platforms and medical transport solutions, coordinating cross-functional teams to deliver high-quality releases on schedule
- Designed and implemented automated test suites using Nightwatch.js (JavaScript-based framework), verifying complex insurance and healthcare workflows from UI interactions through backend system validation
- Performed comprehensive quality assurance including SQL database validation queries, Postman API endpoint testing, and XML-based system integration verification to ensure data consistency, performance benchmarks, and system reliability
- Led requirements gathering, analysis, and documentation processes within Agile/Scrum environment, translating business needs into technical specifications and user stories for development teams
- Served as technical liaison between Romanian development team and German stakeholders, conducting requirements workshops and sprint reviews in German to ensure clear communication of technical constraints, regulatory requirements, and product specifications
- Created and maintained comprehensive technical documentation including test plans, API specifications, and user acceptance criteria in both English and German, ensuring alignment across distributed teams and compliance with German healthcare regulations
- Mentored junior QA engineers on automated testing best practices, Agile methodologies, and requirements documentation, building team capability in test-driven development and continuous integration workflows
- Collaborated with stakeholders across product management, development, and QA to prioritize features, resolve technical challenges, and implement continuous improvement initiatives focused on test automation

Technical Support Specialist   **Siemens Romania**   **Siemens AG**

March 2015 - September 2016   *Cluj-Napoca, Romania*   *Nuremberg, Germany*

- Provided advanced 2nd-level technical support for Siemens PLM Software suite (Teamcenter Product Lifecycle Management and NX CAD/CAE), serving global engineering teams
- Diagnosed and resolved complex technical issues related to client configuration, database connectivity, user access management, and product data workflow processes
- Collaborated with engineering teams to troubleshoot CAD/PLM integration issues, improving system performance and user experience
- Created and maintained technical documentation for common support scenarios and best practices

Data Analyst   **EXL Services Romania**

December 2013 - March 2015   *Cluj-Napoca, Romania*

- Executed data analysis and processing workflows to digitize physical documents, ensuring accuracy and data integrity
- Maintained quality standards through systematic validation procedures and attention to detail
- Collaborated with team members to optimize data processing efficiency and meet project deadlines

Legal Practitioner   **Law Office "Av. Iulia Podar"**

December 2011 - May 2012   *Cluj-Napoca, Romania*

- Conducted comprehensive legal research and analysis to support case preparation and strategic planning
- Developed strong analytical skills and attention to detail through case documentation and legal brief preparation

Commercial Representative   **Carion-Next**

April 2010 - November 2011   *Cluj-Napoca, Romania*

- Collaborated with legal teams and law enforcement agencies, when necessary, to enforce collection procedures and protect interests of the company and clients

TECHNICAL PROJECTS

Personal Finance Tracker   **CLI Application**

Python, Rich Library, JSON   *In Development*   GitHub

- Building comprehensive command-line personal finance tracker with categorized transaction management, budget tracking, and persistent JSON storage
- Implementing object-oriented design with separation of concerns (models and utilities), proper exception handling for currency calculations, and data serialization
- Utilizing Rich library for professional terminal formatting with styled tables, progress bars, and color-coded output for enhanced user experience
- Addressing real-world challenges including floating-point precision for monetary calculations, timestamp formatting, and maintaining data integrity across sessions

Static Site Generator   **CLI Tool**

Python, Markdown Parser, HTML Generation   *Showcase*   GitHub

- Developed lightweight static site generator that converts Markdown files into structured HTML pages with custom parsing engine
- Implemented custom markdown parser supporting bold, italic, code spans, links, images, headings, lists, and block quotes using TextNode/HTMLNode Abstract Syntax Tree for clean HTML construction
- Built block-type detection system, inline delimiter parsing with comprehensive error validation, and automatic newline collapsing for proper paragraph formatting
- Recursively walks content directory, injects processed content into reusable templates, copies static assets, and generates deployable website structure

Shopping Manager   **Desktop Application**

Python, Tkinter/ttk   *Showcase*   GitHub

- Desktop shopping list manager with support for multiple named lists, active list selection, and per-item quantity tracking
- Built multi-page GUI (Home/Active List/All Lists) using controller-based navigation system, scrollable frames for dynamic content updates
- Implemented in-memory data management with options to add, mark as done, or remove items for smooth, responsive user experience

Digital Recipe Book   **Full-Stack Web App**

Python, Django, Django REST Framework,   *Showcase*   GitHub
HTML, CSS, JavaScript

- Collaborative full-stack recipe management application built with Django framework and Django REST Framework for RESTful API architecture
- Implemented complete user authentication system, CRUD operations for recipe management, image upload functionality, and database relationships
- Designed responsive multi-page interface with clean Model-View-Controller architecture, reusable serializers, and seamless front-end/back-end integration
- Coordinated with team members using Git for version control, code reviews, and feature branch workflows

HeliStrike   **2D Action Game**

Godot Engine, GDScript   *Showcase*   GitHub

- Arcade-style helicopter shooter game featuring infinite vertical scrolling, dynamic enemy spawning, power-up system, and health/score tracking
- Implemented layered parallax backgrounds for depth perception, modular scripts with signals and timers, and scene instancing for efficient resource management
- Designed responsive user interface displaying lives, score tracking, and game-over states with smooth gameplay mechanics
- Demonstrated proficiency in game development concepts including collision detection, sprite animation, and state management

Kreativstorm   **Marketing Website**

HTML5, CSS3   *Showcase*   GitHub

- Collaborative responsive multi-page marketing website built with semantic HTML5 and custom CSS3, no JavaScript dependencies
- Features fixed header with CSS-based hamburger menu, flexbox layouts with media queries for all screen sizes, and themed sections including Services, Industries, and Contact
- Implemented interactive pop-ups using HTML anchors and CSS :target selector for lightweight functionality without JavaScript

C-Eleven (Vault 656)   **Text Adventure Game**

Python, JavaScript (Pyodide), HTML/CSS   *Showcase*   GitHub

- Built immersive text-based adventure game with Fallout-inspired post-apocalyptic narrative, featuring command-based interaction system and dynamic room exploration
- Implemented robust object-oriented architecture with modular scene system, event-driven game loop, NPC dialogue trees, inventory management, and complex game state tracking
- Designed flexible command parser supporting natural language input (look, examine, take, talk, use, go) with configurable modifiers and context-aware responses
- Developed dual deployment strategy: standalone CLI version for terminal play and web-integrated version using Pyodide to run Python in-browser with custom CSS/JavaScript for retro terminal aesthetics
- Created comprehensive game world with interconnected scenes, locked/unlocked pathways, item dependencies, dialogue outcomes affecting game progression, and multiple narrative branches

Calculator   **Web Application**

HTML, CSS, Vanilla JavaScript   *Showcase*   GitHub

- Browser-based calculator supporting chained operations, decimals, percent calculations, sign inversion, and backspace functionality
- Maintains internal state and updates display in real-time from button clicks or full keyboard input with operator highlighting and visual feedback
- Implements error prevention for invalid operations such as division by zero

De-Touro   **Regression Test Suite**

JavaScript, Nightwatch.js   GitHub

- Independently learned and developed automated regression testing framework using Nightwatch.js for end-to-end web application testing
- Created comprehensive test scenarios validating UI interactions, form submissions, and navigation flows
- Self-directed learning of test automation, page object model design patterns, and continuous integration workflows applied to production systems

LEADERSHIP & PROFESSIONAL DEVELOPMENT

President   **Ivy Tech Bloomington IT Club**

January 2024 - Present   *Ivy Tech Community College*   *Bloomington, Indiana*

- Elected President in September 2025 after serving as active member since January 2024, demonstrating leadership and commitment to technology education
- Organize and facilitate technical workshops, coding sessions, and peer learning activities focused on professional development and emerging IT trends
- Foster collaborative environment for students to share knowledge, work on group projects, and build professional networks
- Coordinate with faculty and industry professionals to bring real-world insights and career guidance to club members

Vice President   **Student Government Association (SGA)**

August 2024 - May 2025   *Ivy Tech Community College*   *Bloomington, Indiana*

- Represent student body interests and concerns to college administration, advocating for policy improvements and resource allocation
- Organize and coordinate campus-wide events, student engagement initiatives, and community-building activities
- Collaborate with faculty, staff, and student organizations to enhance campus life and student experience
- Develop leadership, public speaking, and organizational skills through executive committee responsibilities

Member   **Phi Theta Kappa (PTK) Honor Society**

September 2024 - Present   *"Alpha Rho Sigma" Chapter*   *Bloomington, Indiana*

- Active participant in honor society promoting scholarship, leadership, service, and fellowship among high-achieving community college students
- **Recipient of Distinguished Member Award at PTK Catalyst 2025** - recognized for exceptional contributions to chapter activities and community service
- Engage in leadership development programs, community service projects, and networking opportunities with fellow scholars

Assistant   **Campus Activities Board (CAB)**

October 2024 - Present   *Ivy Tech Community College*   *Bloomington, Indiana*

- Support planning and execution of campus-wide events, including social activities, educational programs, and cultural celebrations
- Help increase student engagement and foster collaboration among diverse student organizations
- Coordinate logistics, marketing, and outreach efforts to maximize event participation and impact

ADDITIONAL INFORMATION

Languages

English (Fluent - C1), German (Fluent - C1), Romanian (Native), Spanish (Novice - A1/A2)

Professional Development

- Actively preparing for PCAP-31 (Certified Associate in Python Programming) certification exam while continuously developing new projects and solving programming challenges
- Expanding technical skillset through platforms like Boot.dev, currently learning Go programming language to complement Python expertise
- Committed to staying current with emerging technologies and best practices through hands-on experimentation and active participation in developer communities
- Strong advocate for project-based learning, prioritizing building real applications and tackling coding problems over passive tutorial consumption

Technical Interests

- Game development and interactive applications
- Full-stack web application development
- Backend development with Python (Django, Flask)
- Software quality assurance and test automation
- Clean code practices and software design patterns

References

Professional references available upon request.