

Ramon Baez

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SUMMARY

Computer science student with hands-on experience building backend, desktop, and AI-driven applications using Java, Python, and C++. Strong foundation in object-oriented programming and system design through real-world projects. Seeking an entry-level or internship software engineering role.

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, HTML/CSS, Bash, PowerShell

Frameworks: Spring Boot, Flask

AI/ML: RAG Pipelines, Vector Databases (FAISS/Chroma), LLM Integration (OpenAI/Ollama)

Databases: SQLite (JDBC)

Platforms & Tools: Git/GitHub, Unit Testing, CMake, GDB, Valgrind, pip, Virtual Environments

Concepts: OOP, Data Structures & Algorithms, API Design, Web Development, Secure Coding Practices

SOFTWARE PROJECTS

Math Tutor Platform | *Java, RAG, Vector Databases*

- Designed and implemented an AI-powered tutoring system using Retrieval-Augmented Generation (RAG)
- Built document ingestion and embedding workflows using vector databases for semantic search
- Implemented logic to generate step-by-step math explanations and evaluate user responses
- Structured backend components for modularity, extensibility, and maintainability

Finance Manager | *Java, JavaFX, SQLite*

- Developed a desktop application for expense tracking using JavaFX and SQLite (JDBC)
- Designed a layered architecture (model, service, repository) applying OOP principles
- Implemented persistent storage, input validation, and monthly summary calculations

Password Vault | *Python, Tkinter, SQLite*

- Built a local password management application with encrypted credential storage
- Implemented CRUD operations for creating, searching, updating, and deleting entries
- Applied secure development practices to protect secrets and generated files

EDUCATION

Southern New Hampshire University Bachelor of Science in Computer Science

Expected Jan 2027

Quinsigamond Community College Associate of Arts in Computer Science

May 2025

EXPERIENCE

End User Computing Analyst UMass Memorial Health

February 2021 – Present
Worcester, MA

- Developed automation scripts for vulnerability and compliance reporting, reducing manual effort by ~30%
- Supported enterprise systems in a HIPAA-regulated environment, collaborating with technical teams to maintain reliable operations

IT Support Engineer NWN

March 2019 – October 2020
Waltham, MA

- Delivered technical support across client environments and documented resolutions through ticketing workflows
- Troubleshoot software and connectivity issues using remote support tools (RDP, Bomgar, TeamViewer, LogMeIn)