

# Ramon Baez

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## SUMMARY

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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

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**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

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**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

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<b>Southern New Hampshire University</b> Bachelor of Science in Computer Science	<b>Expected Jan 2027</b>
<b>Quinsigamond Community College</b> Associate of Arts in Computer Science	<b>May 2025</b>

## EXPERIENCE

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<b>End User Computing Analyst</b> UMass Memorial Health	<b>February 2021 – Present</b> Worcester, MA
<ul style="list-style-type: none"><li>Developed automation scripts for vulnerability and compliance reporting, reducing manual effort by ~30%</li><li>Supported enterprise systems in a HIPAA-regulated environment, collaborating with technical teams to maintain reliable operations</li></ul>	
<b>IT Support Engineer</b> NWN	<b>March 2019 – October 2020</b> Waltham, MA
<ul style="list-style-type: none"><li>Delivered technical support across client environments and documented resolutions through ticketing workflows</li><li>Troubleshoot software and connectivity issues using remote support tools (RDP, Bomgar, TeamViewer, LogMeIn)</li></ul>	