

Ashton Rich Roxas

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EDUCATION

University of Massachusetts Lowell

Bachelor of Science in Computer Science

GPA: 3.3/4.0

Lowell, MA

May 2026

Relevant Coursework: Computer Security, Mobile App Programming, GUI Programming, Analysis of Algorithms, Operating Systems, Cloud Computing, Computer Architecture

TECHNICAL SKILLS

Languages: Java, Python, C++, TypeScript, SQL, Kotlin, HTML/CSS, C

Cloud & DevOps: Firebase, AWS (Lambda, S3, DynamoDB, CDK), Azure, Docker, CI/CD, Git

Frameworks & Libraries: React.js, Next.js, Vite, Node.js, Tailwind CSS, SFML, JUnit

Concepts: Microservices, REST/GraphQL APIs, Agile, Data Structures, OOP

PROJECTS

GroupTab — *React, Vite, Firebase (Firestore, Auth), Tailwind CSS*

Jan 2026 – Present

- Developed a real-time collaborative expense-sharing SaaS application, utilizing **Firebase Firestore** snapshots to synchronize data across multiple users with sub-second latency.
- Engineered a secure "Join Code" system using **Firebase Security Rules** to enforce document-level access control, preventing unauthorized data modification and ensuring privacy.
- Designed a responsive, premium dashboard with a "mobile-first" approach, implementing a custom CSS "Glass-morphism" UI and dynamic receipt-breaking logic for group settlements.
- Optimized application performance by shifting complex debt-calculation logic to client-side helpers, reducing backend overhead and providing instant feedback to users.

AudioByte — *Python, AWS (CDK, Lambda, DynamoDB), React*

Oct 2025 – Dec 2025

- Architected a cloud-native music platform using **AWS Microservices**, utilizing AWS CDK (IaC) to eliminate manual configuration drift and reduce deployment time by 40%.
- Engineered a serverless GraphQL API with Python Lambda resolvers to securely handle authenticated file uploads, supporting concurrent user requests without server overhead.
- Designed a responsive frontend with global state management, reducing initial page load time and enabling seamless audio buffering for users.

HawkAdvisor — *Kotlin, Spring Boot, SQL, Azure AI, LLM Integration*

Sep 2025 – Dec 2025

- Engineered a career discovery platform for 18,000+ UML students, leveraging **LLM logic** to bridge the gap between academic course electives and specific industry career demands.
- Developed automated scrapers to ingest University course catalogs, architecting complex **SQL** schemas to map major-specific electives to real-world professional outcomes.
- Implemented a "5-click rule" UI design to ensure rapid access to critical data, integrated with **Azure Cognitive Search** for semantic natural language querying.

LEADERSHIP EXPERIENCE

UML The Filipino Club — *President*

April 2024 – Present

- Direct a cross-functional team of 10 officers to execute large-scale cultural events, managing a semester operating budget of \$2,000+.
- Increased active membership by 25% by pivoting to data-driven social media campaigns and establishing strategic partnerships with other student orgs.
- Orchestrated logistics for outreach programs, acting as the primary liaison between the student body and university administration to secure venue resources.