

Ashton Roxas

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LinkedIn — GitHub

EDUCATION

University of Massachusetts Lowell, Lowell, MA

Anticipated May 2026

Bachelor of Science in Computer Science

GPA: 3.1

Relevant Coursework: Discrete Structures, Assembly Language, Computer Architecture, OOP (C++), Logic Design, Operating Systems, Computing I–IV, Prob & Stats, Mobile App Programming

Honors & Activities: Dean's List, Honors Student, UML Club President

TECHNICAL SKILLS

Languages: C, C++, Java, Python, HTML/CSS, JavaScript, SQL

Tools & Frameworks: SFML, Boost, Git, VSCode, Node.js, AWS, Azure

Operating Systems: Windows, macOS, Linux, Virtual Machines

PROJECTS

HawkAdvisor — Kotlin, SQL, Python, Azure

Fall 2025

- Develop a career and course recommendation platform for UML students, mapping majors to career paths and elective courses.
- Integrate third-party APIs (Glassdoor, RateMyProfessor) to provide salary insights, professor ratings, and course information.
- Design future Phase 2 features, including semantic search and an AI-powered chatbot using Azure Cognitive Search and OpenAI.

BudgetBuddy — Node.js, MongoDB, HTML/CSS

Summer 2025

- Built a full-stack application to log, categorize, and analyze personal expenses with secure data storage in MongoDB.
- Implemented RESTful APIs in Node.js and interactive charts for real-time spending trend visualization.
- Designed inclusive features such as multi-currency support and an accessible, responsive UI.

Portfolio Website — React, TypeScript, Tailwind CSS, Framer Motion

Fall 2024

- Created a responsive portfolio website with modern component architecture and mobile-first layouts.
- Enhanced UX with animations and interactive UI elements using Framer Motion.
- Applied semantic design tokens in Tailwind CSS for consistent theming.

Sokoban Game — C++, SFML, Unit Tests

Spring 2024

- Developed a 2D Sokoban puzzle game in SFML using OOP principles and scalable level generation.
- Implemented box-pushing mechanics, win-state validation, and unit tests to ensure game robustness.

EXPERIENCE

Boston Misang Pinoy — Volunteer

Dec 2020 – Present

- Coordinate logistics for community events, demonstrating strong organizational leadership.
- Designing multimedia presentations to enhance event engagement and increase attendee participation.
- Assist with meal preparation and serving, ensuring smooth event execution.

UML The Filipino Club — President

April 2024 – April 2025

- Leading a team in organizing cultural events, increasing club participation by 40%.
- Managing budgeting and logistics for outreach programs, promoting Filipino heritage.
- Expanding membership through targeted social media campaigns and networking events.