

Donovan Gamboa

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Software Engineering

Bilingual, third-year engineering student seeking to transition project experience and academic learning to a co-op position. Demonstrated ability to collaborate with team members to design, implement, and test software programs. Fluent in Spanish. Open to relocating.

Core Competencies: Agile Methodologies | Incremental Software Engineering Practices | Networking | Math | Physics
Programming Languages: Python, Java, C, C++, JavaScript, HTML, CSS, Web API, SQL, MATLAB, MySQL
Other Technical Skills: Embedded Systems, Microsoft Office (Word, Excel, PowerPoint, Access, Teams), Shell, Windows, Apple, Linux, GitHub

Education

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY – **Bachelor of Science, Software Engineering** Expected 05/2025
Minor in Mathematics; Minor in Quantum Information Science and Technology
Dean's List: Fall 2020, Spring 2020
Clubs: Electronic Gaming Society (2021-Present) | Circle K (2020-Present)

Academic Projects

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY

Project: Bank Simulator 03/2023 – 04/2023

- Developed and tested stand-alone program to simulate workflow in typical banking environment on Nucleo-L476rg platform, using C; managed parallel processing and synchronization through concurrency mechanisms.
- Designed program architecture, ensuring modularity, separation of concerns, and adherence to best practices.
- Deployed customer queue and 3 teller threads to assign customers to available tellers.
- Displayed real-time metrics and calculated and reported end-of-day metrics such as total customers served and wait times.

Project: Chat Service 08/2021 – 09/2021

- Collaborated with team of developers to design and implement entire back end of project using Python, SQL, and MySQL. Optimized performance and data retrieval algorithms by identifying and resolving bottlenecks in database queries.
- Created robust database schemas and utilized SQL queries to store and retrieve user information and chat logs.
- Implemented secure user authentication and authorization mechanisms for data privacy and access control.
- Integrated back-end functionalities into user interface with front-end developers to. Tested and debugged application.
- Used agile methodologies to iteratively develop and enhance application, incorporating user feedback and adding features.
- Documented back-end architecture, database schemas, and API endpoints to facilitate maintenance and development.

Work Experience

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY

Intern – Innovation Fellows Program 06/2023 – Present

- Led team in developing Jira API prototype for Miner Repair, streamlining ticketing, invoicing, and reporting.
- Communicated project updates and requirements, ensuring client satisfaction.
- Demonstrated prototype's capabilities to client, fostering collaboration and gathering feedback.
- Orchestrated seamless integration with Jira board, enabling direct updates from the program.

Course Assistant - Software Design for Computing Systems 01/2023 – Present

- Conduct review and study sessions for students; explain assignments and provide guidance on complex topics.
- Assist professor in developing materials, preparing projects, and grading assignments, quizzes, and homework.

Student Staff - Grace Watson Dining Hall 09/2021 – Present

- Verify and scan student I.D. cards and complete purchase transactions with various forms of payment.
- Trained ~20 new student employees in processes and procedures, expediting acclimation and increasing efficiency.

Prior Experience: Warehouse Worker/Driver - Norwescap, Phillipsburg, NJ, 07/2019 – 12/2021