Cameron Angle

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Summary

- Excellent foundational understanding of object oriented design principles, algorithms, and abstract data structures gained through various projects and object oriented courses
- Self-motivation and efficiency skills demonstrated during a research internship where research was mostly self-guided
- Strong communication skills, both written and oral, developed through collaborative research work as well as in various group projects in mathematics and software design
- Experience programming in Linux environments involving memory management, multithreading, and mutexes, as well as Linux OS knowledge

Technical Skills

Languages: Java, Javascript, C, C++, C#, Python, SQL, HTML, CSS
Technologies: .NET, Node.js, Express.js, Jira, Bootstrap, Handlebars, git/github, VScode, IntelliJ IDEA

Education

Carleton University Ottawa, Canada
Bachelor of Computer Science, Honours, Co-op Option *2022 - 2027 (expected)*

- CGPA 11.12/12, faculty scholarship
- Dean's list 2022-2023
- Awarded 2023 Dean's summer research grant

Experience

Undergraduate Research Intern May 2023 - Apr 2024
Carleton University *Ottawa, Canada*

- Planned and implemented a Python program capable of reading open street map data and converting it into graph data resulting in better training for the adjacent neural network
- Researched various Python libraries to augment my program (Numpy, Rtree, professor created) resulting in a more efficient script
- Communicated with my professor and other lab researchers to plan and execute various optimizations which increased program efficiency and bettered personal communication skills
- Compiled all research and project information to deliver a final presentation

Projects

Real-time Transit Website | *Javascript, Node.js, Express.js, Bootstrap, SQlite* Oct 2023 - Dec 2023

- Programmed a functional transit tracking website displaying real-time transit information on Ottawa's O-line train with the transit.app API
- Used an SQlite database to store user preferences and credentials for token based authentication

Spending Tracker API | *ASP.NET, C#, SQL* Feb 2024 - Mar 2024

- Developed a RESTful API using the .NET framework to allow users to make various http requests and manage personal spending
- Configured an SQL database such that users can log and retrieve purchases to the database through the API web requests

Podcast Management | *C++* Nov 2023 - Dec 2023

- Implemented a C++ application to simulate podcast management software complete with adding, removing, listening, and other typical operations
- Leveraged memory management, operator overloading (with polymorphism) and templates to acheive optimal functionality