Samuel Hakkarainen

408-335-5859 | samuel.hakkarainen@tufts.edu | www.linkedin.com/in/samuel-hakkarainen

Software Engineer

Overview

Computer Science student eager to contribute to software engineering projects during the 2024 summer internship period. Possesses a solid foundation in various stages of software development lifecycle, including coding, testing, and deployment.

Education

Tufts University — Medford, MA
B.S. Computer Science, Mathematics Minor — *Graduates May 2025*

Pomfret School — Pomfret, CT
High School — *Graduation: 2020*

Technical Skills

Languages: C/C++, Python, SQL (Postgres), JavaScript, HTML/CSS, R, PHP
Developer Tools: Git, Azure DevOps, Docker, Kubernetes, Cypress
Frameworks: Node.js, JQuery
Libraries: Pandas, NumPy

Experience

Software Engineering Intern — May 2023 – Sep 2023
MacLean Engineering — *Sudbury, ON*

- Developed a RESTful API using Node.js and PostgreSQL to enable updates to database that reflect architecture of main data pipeline. API is currently used in the production environment
- Used Docker containers in the Kubernetes framework to implement CI/CD within the Azure DevOps Pipeline
- Contributed to enhancing main data ingestor, horizontally scaling operation to meet demands of data output

Computer Manufacturing Intern — Jun 2022 – Aug 2022
BluePoint Controls, Inc — *Milipitas, CA*

- Built custom, special purpose computer systems to be used in customers' specific applications, such as autonomous driving and semiconductor manufacturing
- Worked collaboratively with the quality control team to identify and implement improvements to speed up assembly processes

Projects

E-commerce Website (Authentic Threads) | *HTML/CSS, JavaScript, API's, PHP*

- Collaborated with a team of 4 members to to design a website to sell World Cup Jerseys
- Used PHP to handle user login and store order information in a SQL database
- Used cURL to retrieve real time game scores from an API

Gerp | *C++, Data Structures*

- Similar to the grep command-line utility in linux. Parses files to find instances of a sequences of characters
- Data structures used include hash tables, array lists, and trees. Written in C++.

NFL Analytics | *Python, R, Data Science*

- Analyzed NFL play-by-play data using Python and R, applying statistical concepts to evaluate quarterbacks, stability of statistics, and regressions.
- Developed proficiency of data visualization tools and problem solving through the lens of sports

Other

Tufts University Varsity Ice Hockey: Ongoing development of strategic thinking skills, work ethic, and perseverance to meet personal and team goals. NCAA Division III.

Awards: Deans List 2021, 2022, 2023