

Tarik Eshaq

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EDUCATION

University of British Columbia

Vancouver, BC

Combined Major in Computer Science and Business, GPA: 4.0/4.33

Graduation: April 2021

- Relevant Courses: Basic Algorithms and Data Structures (94%), Introduction to Computer Systems (94%), Software Construction (95%), Introduction to Database Management Systems (96%), Intermediate Algorithm Design and Analysis (Current), Software Engineering (Current)
- Dean's Honor List for all terms to date

EXPERIENCE

University of British Columbia

Vancouver, BC

Computer Science Teaching Assistant

July 2019 – Current

- Working 12 hours a week leading labs and office hours for CPSC 213 (Introduction to Computer Systems)
- Teaching students about the basics of Systems Programming, C, Assembly and the fundamentals of Asynchronous, Concurrent and Parallel programming

SAP

Vancouver, BC

Software Developer Intern

Sept 2018 - May 2019

- Improved the dashboards and wrote new features for SAP Analytics Cloud to serve the product's thousands of corporate customers
- Created and unit tested a novel widget using React, Redux and TypeScript that was proven scalable and selected as a standard for implementing other widgets across the product in multiple SAP offices
- Lead the authentication effort that was vital to hit the application's yearly performance goal of improving the load time by five times, utilizing Web Workers, Service Worker, IndexedDB and JavaScript ES6
- Represented over 180 interns at SAP as an Intern Committee member, planning social events

PROJECTS

Tic-Tac-Rust

June 2019 - Current

- Utilized Rust's unique ownership, borrowing and lifetime features to create a memory safe game manager
- Deployed a Tic-Tac-Toe game on my personal website by compiling the game manager as WebAssembly and publishing it to NPM
- Technologies Used: Rust, WebAssembly, NPM, JavaScript ES6

GoChat

June 2019 – August 2019

- Built a private chat application that utilized gRPC and Protocol Buffers to communicate between different users via bidirectional streaming, then containerized the application using Docker
- Technologies Used: Go, gRPC, Docker

Interv-You (Academic)

May 2019 – June 2019

- Built a full stack web application that helps interviewers and applicants schedule interviews
- Technologies Used: Go, PostgreSQL, JavaScript ES6, Next.JS, React

Elo-Pool

Nov 2018

- Built an application that maintains an ELO based ranking for Pool and Ping Pong at SAP and used Slack's API to declare wins and losses, the application was built to motivate interns to get to know each other
- Shared the application with over 180 interns at SAP and received positive feedback
- Technologies Used: JavaScript ES6, Node.JS, Express.JS, MongoDB, REST APIs

TECHNICAL SKILLS

- Programming Languages: Go, Rust, JavaScript, Python, C, C++, Java, TypeScript
- Other technologies: Git & Github, PostgreSQL, MongoDB, Node.JS, Docker, Jenkins, Jira, React, Redux, gRPC, REST, Service Workers, IndexedDB, WebAssembly

ADDITIONAL

- Hackathons: EduHacks, nwHacks, Vancouver Startup Week Hackathon
- Interests: Soccer, Computer Ethics, History