Naman Sood

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SKILLS

Languages	JavaScript, Golang, Rust, C, C++, Scala, HTML5, CSS3, Bash, Racket, SQL, Python, PHP
Technologies	Node.js, Linux, React/React Native, Docker, AWS, MongoDB, Nginx, Apache, gRPC, Firebase

EXPERIENCE

University of Waterloo
`May 2020 – Aug 2020`

Research Associate, Sirius Blockchain Research Group

- Assisted research by conducting experiments on AWS and analyzing performance data using Python and gnuplot, for a novel Byzantine fault tolerant consensus framework.
- Hardened security by studying and enforcing BLS signature verification for distributed computing system in Golang.
- Streamlined deployment of project, using Docker images to generate repeatable builds across diverse environments.
- Unified similar codebases by migrating components to a single project to reduce code duplication, using C++.

Creesync Software
`May 2019 – Aug 2019`

Software Engineering Intern

- Created photo delivery service for professional photographers, by implementing a REST API and native apps for photographers to preview photos to customers before delivery, using Electron, React Native, and AWS.
- Reduced technical debt in React Native project by combining similar functionality into reusable components.
- Implemented frontend features including likes and comments in social media app, using React Native and Firebase.

The Girl Code
`Mar 2018 – Apr 2020`

Full Stack Developer

- Created online learning platform to promote gender equality by teaching Python programming to school-aged girls using intuitive tutorials, live code examples and a digital companion, using Node.js and MongoDB.
- Assisted research by tracking usage of learning platform to collect data for National University of Singapore study.

PROJECTS

Vibgyor *JavaScript, Apache Cordova*
Won 1st place in XINO 2018 hackathon. Optimized phone UX for visually impaired using voice commands and text narration.

cmdmap *Node.js*
Node module to map CLI programs to a JSON API. Designed abstraction over standard library features for improved security.

Turtle Shell *C, POSIX APIs*
Shell for Unix operating systems in C. Learned memory management, process management, and usage of POSIX interfaces.

CHIP8-rust *Rust*
Emulator for CHIP-8 microprocessor. Simulated behavior of machine instructions with Rust, created graphics in framebuffer.

EDUCATION

University of Waterloo
`Sep 2019 – Apr 2024 (expected)`

Candidate for Bachelor of Computer Science – 92.4%

- **Awards and Honors:** Received $15,000 Computer Science Upper Year Scholarship, and placed on Dean's Honors List.
- **Mentor, StarterHacks 2020:** Helped enable over 1000 participants by providing technical support and design critique in Canada's largest beginner-focused hackathon.
- **Writer, mathNEWS:** Provide insight, experiences and entertainment to students by writing articles and opinion pieces for the biweekly student publication of the Faculty of Mathematics.