Naman Sood

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SKILLS

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

WORK EXPERIENCE

University of Waterloo
May 2020 – Aug 2020

Research Associate, Sirius Blockchain Research Group

- Assisted academic 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 implementing BLS signature verification for distributed computing project, using Golang.
- Streamlined deployment of project by using Docker to containerize dependencies for repeatable builds across diverse environments.
- Unified similar codebases by migrating components from one codebase to another for higher code interoperability, 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 portable modules.
- Implemented user-facing features including likes and comments on posts 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 academic research by tracking usage of learning platform in collaboration with National University of Singapore.

PROJECTS

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

cmdmap *Node.js*
Node module to map command line programs to a JSON-based interface. Designed an accessible API, managed inter-process communication.

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

CHIP8-rust *Rust*
Emulator for CHIP-8 microprocessor. Learned Rust, emulated behavior of machine instructions, and created graphics in a framebuffer.

EDUCATION

University of Waterloo
Sep 2019 – Apr 2024 (expected)

Candidate for Bachelor of Computer Science – 92.4%

- **Director, Developer Student Club (Google Developers):** Reached over 150 people to organize workshop by a Google engineer over two weeks, by creating and maintaining a website, social media handles, and posters.
- **Mentor, StarterHacks 2020:** Helped enable over 1000 participants by providing technical support and design critique in Canada's largest beginner-focused hackathon.