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
Research Associate, Sirius Blockchain Research Group
May 2020 – Aug 2020

- **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
Software Engineering Intern
May 2019 – Aug 2019

- **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
Full Stack Developer
Mar 2018 – Apr 2020

- **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 in 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.

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
Candidate for Bachelor of Computer Science – 92.4%
Sep 2019 – Apr 2024 (expected)

- **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.