# Naman Sood

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## SKILLS

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|---|---|
| **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 portable modules.
- 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%*

- **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.