

# 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

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### University of Waterloo

May 2020 – Aug 2020

*Research Associate, Sirius Blockchain Research Group*

- Hardened security by enforcing BLS signature verification for Byzantine fault tolerance 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++.
- Assisted distributed systems research by conducting experiments on AWS and analyzing performance data using gnuplot.

### Creesync Software

May 2019 – Aug 2019

*Software Engineering Intern*

- Simplified professional photography, by building native apps to deliver photos to clients, using Electron and React Native.
- Designed and deployed API to upload and preview photos in low-bandwidth situations, using Node.js and AWS S3.
- 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*

- Empowered school children by creating online platform to learn Python programming, using Node.js and MongoDB.
- Assisted research by tracking usage of learning platform to collect data for National University of Singapore study.

## PROJECTS

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### CHIP8-rust *Rust*

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

### Vibgyor *JavaScript, Apache Cordova*

Won 1<sup>st</sup> place in XINO 2018 hackathon. Optimized phone UX for visually impaired using voice commands and text narration.

### Turtle Shell *C, POSIX APIs*

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

### cmdmap *Node.js*

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

## EDUCATION

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### University of Waterloo

Sep 2019 – Apr 2024 (expected)

*Candidate for Bachelor of Computer Science – 94.5%*

- **Awards and Honors:** Received \$15,000 Computer Science Upper Year Scholarship, and placed on Dean's Honors List.
- **Mentor, StarterHacks 2020:** Provided technical and design advice in Canada's largest beginner-focused hackathon.
- **Editor, mathNEWS:** Provide news and recreation to student body via student publication of the Faculty of Mathematics.