

Naman Sood

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EDUCATION

University of Waterloo

Bachelor of Computer Science – 94.5%

Sep 2019 – Apr 2024

- **Awards and Honors:** Received \$15,000 Computer Science Upper Year Scholarship, and placed on Dean's Honors List.
- **Relevant Coursework:** Data Structures, Object-Oriented Programming (C++), Functional Programming (Racket, Haskell)

SKILLS

Languages JavaScript, Go, Rust, C++, C, Scala, HTML5, CSS3, Shell, Python, Racket, Haskell

Technologies Linux, Git, Docker, TCP/IP, AWS, gRPC, React, SQL, MongoDB, Firebase

EXPERIENCE

Carta

Incoming Software Engineering Intern, Infrastructure

Sep 2021 – Dec 2021

Tailscale

Software Engineering Intern

Jan 2021 – Apr 2021

- Boosted compatibility with LXC containers by providing in-process TCP/IP and link-layer emulation, using Google gVisor.
- Enabled simple, standard communication for programs over Tailscale network by creating a SOCKS5 proxy server in Go.
- Simplified deployment of Tailscale in cloud environments by creating single-session authentication keys with auto-cleanup.
- Secured continuous integration and deployment pipelines by creating GitHub Action to allow workflows to use Tailscale.
- Expanded outreach with technical community by writing long-form content for knowledge base and corporate blog ([link](#)).

University of Waterloo

Research Associate, Sirius Blockchain Research Group

May 2020 – Aug 2020

- Hardened security by enforcing BLS signature verification for Byzantine fault tolerant distributed consensus system in Go.
- 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

Software Engineering Intern

May 2019 – Aug 2019

- 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.

The Girl Code

Full Stack Developer

Mar 2018 – Apr 2020

- 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

CHIP8-rust ([link](#)) Rust

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

Prose ([link](#)) Go

Markdown-powered blog. Developed custom HTTP server with hooks for web request logging, routing and error handling.

Turtle Shell ([link](#)) C, POSIX APIs

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

cmdmap ([link](#)) Node.js

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