Navraj **Singh** Chhina

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github.com/nschhina

Technical Skills

Languages: Python, Golang, C++, C, Bash, SQL, HTML/CSS, JavaScript

Technologies: Ansible, Docker, Terraform, Kubernetes, Jenkins, Git, AWS, MySQL, Linux, Node.js, REST

Experience

XE.com Inc. | **DevOps Engineer Intern** Apr 2018 - Present | Toronto, ON

- Implemented back end server in Go, reducing packet loss over high latency connection by 10% and decreased the server load by 30% over the original Node.js server
- Tested and implemented QUIC protocol for sending sensor data packets using multiple streams, decreasing the packet transfer time by 90% over the original TCP protocol
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Team Waterloop | **Back End Developer** Oct 2017 - Feb 2018 | Waterloo, ON

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- Tested and implemented QUIC protocol for sending sensor data packets using multiple streams, decreasing the packet transfer time by 90% over the original TCP protocol

Hostinko | **Front End Developer** Jul 2017 - Aug 2017 | Toronto, ON (remote)

- Designed new webpages and front end applications using JavaScript and Bootstrap
- Refactored codebase to decrease website load time by over 10%, benefitting over 200 clients
- Introduced effective marketing techniques and launched customer outreach campaigns resulting in an increase of over 40% in one month

Projects

Voirate | **Python • Javascript • HTML5 • CSS3** github.com/nschhina/Voirate

- Designed a web app that rates the user's presentatation at Hack The North 2017 by measuring the clarity, rythmicity and tone of their vocal delivery
- Coded the algorithm in Python from scratch using mathplot libraries with sound wave analysis

Traffix | **C++ • Qt** github.com/nschhina/Traffix

- Designed a traffic simulation model using Qt UI to optimize and synchronize traffic lights
- Implemented shortest path algorithms, improving the traffic flow efficiency by over 70% than the original pre-timed traffic light system resulting in faster travel in the simulated city

Online Portfolio | **React • Gulp.js • SASS • HTML** github.com/nschhina/React-App

- Designed a traffic simulation model using Qt UI to optimize and synchronize traffic lights
- Implemented shortest path algorithms, improving the traffic flow efficiency by over 70% than the original pre-timed traffic light system resulting in faster travel in the simulated city

Education

University of Waterloo | **Bachelor of Software Engineering** Sept 2017 - Apr 2022 | Waterloo, ON

- GPA: 3.3