Navraj Singh Chhina

nschhina.com

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github.com/nschhina

(289)930-0002

Skills

Languages

C++ · C · HTML5/CSS3 · JavaScript · Go · Python · SQL

Tools and Frameworks

Git · Bash · Bootstrap · MySQL · Linux

Work Experience

Team Waterloop | Back End Engineer

October 2017- Present | Waterloo, 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

Hostinko | Front End Developer

July 2017 - August 2017 | Ludhiana, India

- 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

Education

University of Waterloo

September 2017 - April 2022

· Bachelor of Software Engineering

Miscellaneous

• Bhangra Folk Dance Enthusiast • Swimmer • Blogger • Cryptocurrency