

NATHAN TANG

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EDUCATION

University of Alberta

September 2019 – April 2024 (Expected)

- Bachelor of Science in Computing Science with Software Specialization
- Data structures, algorithms, computer architecture, files/databases, linear algebra, discrete math/formal logic

TECHNICAL SKILLS

Languages	Python, C, Typescript/Javascript, HTML/CSS, SQL, Powershell, Bash
Databases	MySQL, PostgreSQL, MariaDB, SQLite, MongoDB, Redis
Technologies	React, Express, Electron, Node, Git, Docker, Windows, Linux, UNIX, RISC-V

PROJECTS

Rideshare App | Typescript, React, Express, PostgreSQL, Redis

[github.com/rideshareapp](https://github.com/nathanlytang/rideshareapp)

- An in-progress rideshare web application centred around regularly scheduled events
- A fully functioning REST API backend with authentication using the OAuth 2.0 protocol
- Frontend built on React using hooks and functional components

Steve | Javascript, Node.js, Docker, MySQL

github.com/nathanlytang/steve

- A Discord-verified bot built in the Node.js runtime environment and running on Docker
- Grabs Minecraft server information using the UDP query protocol to return server status and player info
- Deployed to over 100 Discord VoIP servers with hundreds of active users every day

Inhabit | Javascript, Electron, Android/iOS

github.com/nathanlytang/inhabit

- A to-do app built for the desktop with Javascript running on the Electron and Node.js framework
- Also built for iOS and Android mobile devices using React Native

wg-cli | C, Bash

github.com/nathanlytang/wg-cli

- CLI tool to manage Wireguard VPN servers built for Linux, using C and C standard libraries
- Automates private and public key generation, and peer creation and deletion

Inventory Manager | Python, SQLite

github.com/nathanlytang/InventoryManager

- An inventory manager desktop app built with Python using Tkinter, SQLite, and SQLAlchemy
- Persists information using SQLite3 databases

Address Book | Python, Tkinter

github.com/nathanlytang/AddressBook

- An address book desktop app built with Python using Tkinter and Google APIs
- Uses the Google Sheets API to keep data constantly updated across devices using authentication keys

OTHER EXPERIENCE

Edmonton Christian Community Church *Audio-Visual Team*

February 2019 – Present

DiscoverE Engineering and Science Camps *Instructor/Volunteer*

July 2019 – August 2019

Royal Canadian Air Cadets *Warrant Officer Second Class, Training NCO*

September 2013 – June 2019