

# NATHAN TANG

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## EDUCATION

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### University of Alberta

September 2019 – April 2024 (Expected)

- Bachelor of Science in Computing Science with Software Specialization
- Relevant coursework includes: data structures, algorithms, computer architecture, files/databases, linear algebra, discrete math/formal logic

## TECHNICAL SKILLS

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<b>Languages</b>	Python, C, Typescript/Javascript, HTML/CSS, SQL, Powershell, Bash
<b>Databases</b>	MySQL, MariaDB, SQLite
<b>Technologies</b>	React, Electron, Node.js, Git, Windows, Linux, UNIX, RISC-V, Docker

## PROJECTS

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### Steve. | Javascript, Node.js, Docker, MySQL

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

- A Discord bot built in the Node.js runtime environment and running on Docker
- Grabs Minecraft server information using the Query Protocol to return server statuses
- Deployed in many Discord VoIP servers and serves hundreds of people every day

### Inhabit | Javascript, Electron, Android/iOS

[github.com/nathanlytang/inhabit](https://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

### Address Book | Python, Tkinter

[github.com/nathanlytang/AddressBook](https://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

### Inventory Manager | Python, SQLite

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

- An inventory manager desktop app built with Python using Tkinter, SQLite database, and SQLAlchemy
- Allows for manipulation of different database files to keep different inventory records

### wg-cli | C, Bash

[github.com/nathanlytang/wg-cli](https://github.com/nathanlytang/wg-cli)

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

## EXPERIENCE

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### University of Alberta Aerial Robotics Group

September 2019 – Present

*Pilot, Electronics Team*

- Design and build onboard electronics systems for drones to compete at the Unmanned Systems Canada Student UAV Competition and the AUVSI Student UAS Competition

## OTHER EXPERIENCE

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**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 Officer*

September 2013 – June 2019