# **NATHAN TANG**

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#### **EDUCATION**

## 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

**Languages** C, Python, Typescript/Javascript, HTML/CSS, SQL, Powershell, Bash

Technologies React, Electron, Node.js, SQLite, Git, Windows, Linux, UNIX, RISC-V, Docker

Other Computer networking, Computer hardware

#### **PROJECTS**

**Steve.** | Javascript, Node.js, Docker *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* 

- 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

- 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

- 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

- 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**

## **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

Edmonton Christian Community Church Audio-Visual Team

Discover Engineering and Science Camps Instructor/Volunteer

Royal Canadian Air Cadets Warrant Officer Second Class, Training Officer

February 2019 – Present July 2019 – August 2019 September 2013 – June 2019