NATHAN TANG

nathan.ly.tang@gmail.com | 780-908-8238 | nathanlytang.com | github.com/nathanlytang

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

PROJECTS

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 statuses
- Deployed to 80 Discord VoIP servers and 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
- Allows for manipulation of different database files to keep different inventory records

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

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*   *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*