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*	*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*