# Matt Davison

Software Engineer Intern

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Blacksburg, VA

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Solution-oriented and inquisitive with a background in Quantum Computing, Mobile Development, and Cybersecurity.

## **EDUCATION**

# B.S. Computer Science Virginia Tech

08/2018 - 05/2022

3.63 GPA, 3.83 in Major GPA

- Courses
- Data Structures & Algorithms
- iOS Mobile Development
- Computer Organization
- Problem Solving

- Software Design
- Intro to Docker and Kubernetes
- Competitive Programming

### **WORK EXPERIENCE**

# Software Developer Intern

Lockheed Martin

05/2019 – 08/2019

Center for Innovation - Norfolk, VA

- Achievements/Tasks
- Developed back-end software to retrain Mozilla's Deepspeech Recurrent Neural Network for transcribing proprietary audio
- Developed audio segmenter to trim long audio clips into smaller segments using word detection that can be transcribed-improved transcription accuracy by 30%
- Aided development of front-end page to upload user-generated audio clips
- Planned and Hosted 40+ intern tour of Center for Innovation

# Quantum Annealing UGRA

Virginia Tech Hume Center

09/2018 – Present Blacksburg, VA

Faculty Advisor: Tom Krauss

- Achievements/Tasks
- Developed algorithm for Binary Clustering in O(n) on Quantum Annealers
- Implemented algorithm for determining Graph Isomorphism on a Quantum Annealer using Dwave Ocean
- Investigating Use of Quantum Annealing for Software Validation

## Solutions Architect Shadow

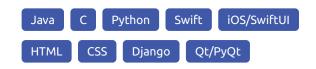
#### Equinix Data Centers

06/2018 - 06/2018

Ashburn, VA

- Achievements/Tasks
- Shadowed Solutions Architect Team
- Applied OSI model to Design Cloud Infrastructure

## **SKILLS**



#### **PROJECTS**

#### Quantum Annealing Embedding Visualizer

 Application that allows users to graphically program qubits and simulate annealing process

#### Ultimate Competitive Ping Pong

- Game developed in Java to teach basics of programming

#### **GIS Data System**

- System for indexing and searching features in GIS Records

#### Music Database

Application for visualizing music preference data among students

### **ORGANIZATIONS**

Virginia Tech Competitive Programming Team

Virginia Tech Cybersecurity Club

Virginia Tech Linux/Unix Users Group

Virginia Tech Web-Development Club