Matt Davison
Software Engineer Intern

mattd7@vt.edu ✉

571-420-9996 📱

matt-davison.github.io 🌐

linkedin.com/in/matt-davison in

github.com/matt-davison

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 SDK
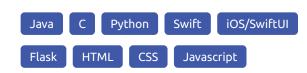- Investigating Use of Quantum Annealing for Software Validation

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

`Java` `C` `Python` `Swift` `iOS/SwiftUI`

`Flask` `HTML` `CSS` `Javascript`

PROJECTS

Easy Lectures
- Webapp that allows users to search lectures for the content they want and interact with course TA's when they have questions (Won 1st Place @ VTHacks7)

Quantum Annealing Embedding Visualizer
- Application that allows users to graphically program qubits and simulate annealing process

Vibe Check
- Webapp that aggregates content from internet and uses contextual sentiment analysis to rate a user's query

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