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 Mobile Development, Quantum Computing, and Cybersecurity.

EDUCATION

B.S. Computer Science Virginia Tech

08/2018 - 05/2022

3.65 GPA, 3.87 in Major GPA

- Courses
- Data Structures & Algorithms
- iOS Mobile Development
- Computer Systems
- Computer Organization
- Software Design
- Intro to Docker and Kubernetes
- Competitive Programming
- Machine Learning

WORK EXPERIENCE

FBU Engineering Intern

Facebook

06/2020 - 08/2020

- Achievements/Tasks
- Built and published fully-featured social media Android app,
 Standup
- Built a movie browsing app, Twitter clone, and Instagram clone

Software Developer Intern

Lockheed Martin

Center for Innovation - Norfolk, VA

- 05/2019 08/2019 ☐ 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

Blacksburg, VA

09/2018 - Present

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 in O(m^3*logn) qubits
- Investigating Use of Quantum Annealing for Software Validation

SKILLS

Java Python

С

Swift

iOS/SwiftUI

Android

Flask

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