Matt Davison

Software Engineer Intern

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

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 fully-featured social media Android app, Standup
- Completed Codepath Android Course
- Built a movie browsing app, Twitter clone, and Instagram clone

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
- Aided development of 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 | C | Swift | iOS/SwiftUI | Android | Flask | MongoDB | Docker

PERSONAL 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

ORGANIZATIONS

Virginia Tech Competitive Programming Team

Virginia Tech Cybersecurity Club

Virginia Tech Linux/Unix Users Group