RYAN MILES

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EDUCATION

Master of Science in Computer Science Specialization in Computing Systems

August 2021 - May 2022

Georgia Institute of Technology, Atlanta, GA.

Bachelor of Science in Computer Science Specialization in Graphics & AI

August 2017 - May 2021

Georgia Institute of Technology, Atlanta, GA. GPA: 3.90

SKILLS

Programming
Android Libraries
Coursework
Platforms

(Proficient) Java, Kotlin, Python, Android | (Beginner) LaTeX, Typescript, SQL, React LiveData, Android Jetpack, Timber, Dagger, Firebase, OkHTTP, Retrofit, Fresco, EventBus Database Design, Data Structures and Algorithms, Computer Graphics, Artificial Intelligence

Mac, Windows, Android, Ubuntu Desktop, Ubuntu Server, NixOS

WORK EXPERIENCE

Android Developer Intern at BlueFletch, Atlanta, GA

May 2018 - April 2019 & April 2020 - Current

- · Developed an AOSP platform service to run system level commands on manufacturer signed devices
- · Programmed an AES encrypted IPC channel for secure data transfer between multiple apps through AIDL
- · Designed a customizable & secure Android replacement notification drawer to allow/deny specific notifications
- · Developed an Android for Work platform in Java that increased supported devices by 1500%
- · Increased Android project's code coverage from 0% to 70% using Espresso, JUnit, Mockito, and Robolectric
- · Implemented a unified theming library in Java to save 6-7 development hours per demo request

Teaching Assistant at Georgia Tech, Atlanta, GA

Jan 2019 - Present

- · Teaching Assistant for: Intro to Computer Graphics, 3D UI Design in VR, Intro to Object Oriented Programming
- · Taught a 1.5 hour weekly recitation, graded tests and homework, and helped create assignments.

Research Assistant in the AEL Lab at Georgia Tech, Atlanta, GA

Jan 2021 - Aug 2021

- · Spearheaded integrating VR in a React conferencing platform using Babylon.js and WebXR
- · Deployed the project to an EC2 instance with backend PostgreSQL, NGINX web server, and Typescript codebase

PROJECTS All projects available at ryanmiles.me

Unfoldit Android Kotlin, Dagger, Firebase Analytics, Single Activity MVVM Architecture Aug 2018 - Present Creation of Unfoldit Android, a mobile app to test and enhance your spatial awareness abilities

- · Developed a production ready Android game around spatial awareness with Kotlin, modern libraries, and tests
- · Finalists for Georgia Tech 2019 Inventure Prize with 1000+ Downloads and 100+ five-star reviews

Machine Learning For Trading Project Python, Pandas, Numpy, Matplotlib, LaTeX Aug 2019 - Dec 2019 Wrote a final project paper in LaTeX using Random Forest with technical indicators to trade stocks

- · Calculated Momentum, Bolinger Bands, and Volume-Price Trend % to use as technical indicators
- · Implemented Random Forest and a market simulator using Python, Pandas, and Matplotlib for the report

Europe Train DB System SQL, EER Diagram, IF Diagram

May 2019 - Aug 2019

Collaborated on designing and implementing a database system for Europe's Train System

- · Designed an Enhanced Entity Relationship Diagram & Information Flow Diagram to model the system specification
- · Programmed the SQL create table & query statements per each specification

Space Trader Android Java, Room, UML, JUnit, GSON, Recycler View, Travis.ci Jan 2019 - May 2019 Collaborated on Space Trader Android, a retro complex strategy game, redesigned for Android

- · Lead our five person team in weekly scrum meetings and code review for each project milestone
- · Designed the backend Room database with serialization for saving & restoring player state

ParkHere Android Java, EventBus, Bottom Navigation, Google Maps

November 2017

Creation of ParkHere, an An droid app that allows users to find & pay for nearby parking

- · Leveraged Google Maps with custom markers to show users nearby parking lots with their prices
- · Designed the UI to allow the user to pay for a parking spot, increase their parking time, or contact support