

Michael Yu

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Education

University of California, Los Angeles

Los Angeles, CA

Bachelor of Science in Computer Science

Sept. 2019 - Jun. 2023

- Relevant Coursework: Intro to Computer Science (C++), C Programming (C), AP Computer Science (Java), Intro to Computer Systems

University High School

Irvine, CA

High School Diploma (Weighted GPA: 4.55 Unweighted GPA: 3.90/4.0)

Aug. 2015 - Jun. 2019

Experience

University of California, Irvine

Irvine, CA

Research Intern at the Networked and Game Systems Lab

Jun. 2018 - Sept. 2019

- Developed secure joining protocol using data-over-sound communication
 - Reduced data transfer times by 50% by implementing data serialization method which allowed for greater amounts of data to be sent over sound
 - Built custom Java library for AES encryption and decryption of data payloads
 - Implemented data-over-sound device communication using Chirp.io SDK
- Developed native Android application used to conduct patient trials for iXercise platform
 - Enabled researchers to upload patient trial data using their phones by implementing a UDP Client-Server to communicate with middleware
 - Provided in-app access to real-time heart rate data by designing a background service that polls heart rate data being broadcast on the network
 - Incorporated device discovery using Android's native network service discovery implementation
 - Implemented user authentication using OkHttp Library

Projects

Playlist Tracker

- A native Android application that backups a list of local music playlists and songs to the cloud
- Reduced the number of expensive file queries necessary by implementing Android Room database that provides faster access to local playlists
- Implemented Spring Boot REST API with a Google Firestore database
- Utilized Retrofit library to make asynchronous POST and GET requests to REST API

Nothing But Stats

- A React website and React Native app that displays NBA player stats
- Implemented Spring Boot REST API with a Google Firestore database
- Automated removal of unnecessary Firestore documents and collections
- Prevented unauthorized API requests by implementing basic HTTP authentication
- Worked with Gson library for JSON serialization and deserialization

Easy Planner

- An Android application that creates a digital planner using text extracted from user-uploaded images of homework boards
- Currently available on the Google Play Store with over 1,300 total installs
- Extracted text from images using Google's Mobile Vision API
- Placed 3rd in California Congressional District 48 for the 2017 Congressional App Challenge

Skills

Technologies Java, Spring Boot, JavaScript, React, Native Android Development, Retrofit, Gson, Git, Firestore