

Hamman Ziadeh

(708)-415-8830 • hammamziadeh10@gmail.com • <https://www.linkedin.com/in/hammam-ziadeh/>

EDUCATION

Illinois Institute of Technology | Bachelor of Science in Computer Science Expected Dec. 2022

- GPA: 3.7/4.0 | Accomplishments: Dean's List, Phi-Theta-Kappa award
- Relevant Coursework: Data Structures, Systems Programming, Database Systems, Mobile App Development

SKILLS

Programming Languages: C/C++, Java, JavaScript, Python, Dart, Haskell, HTML5/CSS3/SCSS, SQL

Tools/Technologies: Node.js, React, Spring Boot, Flutter, MongoDB, Firestore, MySQL, Git, EJS, JUnit5, Jira, Unix CLI

Other: Agile Development (Scrum), Unit Testing, Networking Concepts, Data Collection (Web Scraping, etc.)

EXPERIENCE

Software Engineering Intern Sep. 2020 – Nov. 2020

Nudgespace | Tucson, AZ

- Explored and evaluated the integration of complex Matching/ Clustering algorithms (K-means, DBSCAN, etc.) running on the AWS Lambda Platform utilizing Java and MongoDB
- Assisted in the planning of a Tinder-like matchmaking app for finding friends with similar interests.
- Gained Experience in the fundamentals of mobile application development and website design, as well as the implementation of algorithms for functional user-based platforms.

Co-Founder & Lead Engineer Sep. 2019 – May. 2020

Brailliant

- Setup an organization to develop innovative hardware & software for visually impaired and blind people.
- Utilized Java, Junit, Kotlin, Git, Android Studio, and various APIs & Libraries to lead the software team in creating a new Android launcher with suitable accessibility features facilitating OS use by the target audience.
- Utilized CAD & CAM software (Fusion 360 and KiCad) to lead the hardware team in creating a small-sized attachable braille keyboard.

PROJECTS

AirTune – A Full-Stack Spotify Jukebox Mobile Application

- An Android Mobile Application built using Java, JUnit, and Kotlin that allows Spotify users to listen to/ add music to the same queue.
- Leveraged Spotify's RESTful API for authentication and retrieval of data. Made use of Spotify's Remote SDK to add to the queue and play music.
- Developed a Realtime communication channel with NoSQL Firebase Realtime database to allow instant communication between the host and the host's party. Implemented several Firebase cloud functions using NodeJS to instill server-side functionalities such as deleting an inactive party.

ReadReview – A Book Review Full-Stack Mobile & Web Application

- A Full-Stack Web & Mobile application that allows users to perform CRUD operations on book reviews.
- Implemented a RESTful API backend using Python and Flask to authenticate users. Leveraged SQLAlchemy (connected to MySQL) for relational data storage.
- Developed the frontend with the Dart Programming language & the Flutter framework.

AirSend – An Instant Note/File Transfer Full-Stack Web Application

- A Full-Stack Web Application that replicates Apple's AirDrop feature, with support for instant transfer between all devices.
- Developed the frontend with ReactJS with efficient communication with an Express.js/MongoDB backend server applying the MVC design pattern coupled with a RESTful API.

Automatic Algorithmic Trading – A Python Program That Analysis Stocks and Trades Automatically

- Implemented a Python program that uses momentum trading algorithm (Ken French's approach) that analyzes Dow Jones S&P 500 for the best stocks to buy. Data retrieved by web-scraping; Pandas & Numpy are used for analysis.
- Program is hosted on Google Cloud and uses Firebase Realtime-Database to communicate to an Android frontend.
- When tested, program yielded a 17% profit in one period (30 days).