Kaden Weber

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Education

BS in Computer Science, with Arabic Minor

Brigham Young University, Provo, UT – GPA: 3.6

Graduated April 2020

Selected Coursework:

- Image Processing
- Deep Learning
- Software Engineering
- Technical Communication
- System Programming
- User Experience
- Computer Security

Professional Experience

Contract Software Engineer

Urban Planning International, LLC — Remote

February 2020 - Present

- Created a cross platform build for an older modeling program
- Built a python framework from scratch for an [UrbanSim](#) inspired real estate development allocation model tailored specifically for a client city's data

Co-Founder and CTO

[Canary Safety](#) — Provo, UT

January 2020 - Present

- Interviewed potential customers to continually tailor business model and user experience
- Audited and implemented secure and robust application architectures

Research Assistant

Brigham Young University — Provo, UT

January 2019 – April 2020

- Developed a prototype Android app to detect figure skating jumps with a simple algorithm using real-time data from an [IMU](#)
- Created a [WearOS app](#) for exporting smartwatch motion sensor data to use for ML training data
- Evaluated machine learning algorithms best suited to detect and differentiate figure skating jumps

Engineering Intern

Showpad — Chicago, IL

May 2019 – August 2019

- Wrote and tested production swift and Objective-C code for an enterprise iOS application
- Implemented an experimental microservice in Kotlin's Ktor framework and deployed it with Docker and Kubernetes

WordCruncher MacOS Developer

Brigham Young University — Provo, UT

January 2018 – January 2019

- Caught up an industry-specific solution to a modern MVC architecture in Swift by translating thousands of lines of C++

Projects

BYU Mars Rover Team — University Rover Challenge

September 2019 - April 2020

- Improved and prepared a [rover](#) for a [world-wide competition](#) with 30 of the best prepared students from Brigham Young University
- Maintained a mid-sized codebase, implemented source control standards and best practices, performed code reviews, wrote unit tests
- Automated networking and rover setup using bash and python scripts, used ROS messaging to connect Cameras, GPS, and other sensors
- Improved autonomous search algorithms for finding waypoints and recognizing markers

Ascendant Anxiety Tracker

January 2020 - April 2020

- Working to quickly bring iOS app to market, wrote production quality code using newest frameworks like SwiftUI and Combine
- Implemented local datastore using GRDB

Crocker Innovation Fellow

January 2019 – December 2019

- Chosen as one of five juniors to represent the CS major at BYU and created innovative products as part of a cross-disciplinary entrepreneurship program
- In two weeks, wrote a remote control app for a scale model 3-wheeled omni wheelchair that sends wheel commands to an arduino over bluetooth and reports RFID tags to a server

MJPianos.com

January 2018

- Set up a business website for a friend, currently draws nearly 200 unique visitors per month
- Optimized SEO, organic search now accounts for 30% of traffic

Personal

- Brigham Young University Heritage Scholarship Recipient
- Stanford HSSC alumni
- Second-degree black-belt - helped teach younger kids for five years
- Fluent in German, conversational in Arabic