Jacob **Kim**

Chicago, IL

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Experience

Alley
Co-Founder & CTO

Chicago, IL
Jan 2021 - Aug 2021

- Worked with one partner to modernize tennis and create a platform that makes it easy to find, interact, and compete with similarly skilled players around you
- Solely developed the product's frontend with Swift/SwiftUI and backend with Java/Spring. Co-designed the product with partner
- Utilized Firebase authentication to authenticate users, Websockets for real time chat, PostgreSQL for the database, and AWS S3 for image storage
- Continuously implemented new features and fixed bugs to the 500+ users

Allstate
Full Stack Software Engineer

Chicago, IL
Sep 2019 - Jan 2021

- Developed an internal product to provide secure application deployment across the enterprise comprised of a Java/Spring backend, ReactJS frontend, and MSSQL database
- Simplified security across the enterprise by providing an internal scanning tool that integrates with security applications from third-party vendors
- Lead the work on the image scanning microservice tool and used kubernetes for deployment

IBM
Physical Design Engineer & Programmer

Poughkeepsie, NY
Jul 2018 - Sep 2019

- Optimized circuit design using Cadence and IBM tools to improve timing of chip from 5 GHz to 5.4 GHz
- Saved more than 10% for run time on simulations of chip design by analyzing previous chip data using Python and providing better inputs
- Provided insight on the current state of chip to management by creating visuals generated by parsing chip data and using matplotlib.
- Mentored an intern on a project for data visualization and organizing simulated chip data using mongoDB

Projects

Illinois Covid-19 Stat Tracker
Apr 2020 - May 2020

- Created a website to track covid-19 statistics in Illinois
- Used AWS Lambda for serverless functionality to parse, save, and view data
- Website is available at https://ilcorona.com

Footwork
Apr 2019 - May 2019

- Created an Android app to allow tennis athletes to practice their footwork on the court
- Simulated a random tennis rally to mimic the footwork for matchplay
- Download is available at https://tinyurl.com/TennisFootwork

Watson Food Assistant
Nov 2018 - Feb 2019

- Created an Android app that works with IBM Watson Chatbot to recommend new recipes to users
- Generated recipes based on preferences by utilizing the Recipe Puppy API and storing the data using SQLite
- Placed first in the IBM Developer JumpStart program by leading a team of seven software and hardware engineers

Education

Lehigh University · GPA: 3.74 / 4.00
B.S. in Electrical Engineering · Minors in Applied Mathematics and Computer Science

Bethlehem, PA
Aug. 2014 - May. 2018

Skills

Programming Languages   Java/Spring · JS/React · Python

Other   AWS · Firebase · Git · MSSQL · PostgreSQL · DynamoDB