Matthew Kim

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EXPERIENCE

Software Engineer — Aug 2021 - Sep 2022
Wesleyan Delta Lab

Presidential Facebook Ad Spending Interface — Apr 2022 - May 2022
- Built interactive timeline in Next.js using Facebook ad data over a 33 week period
- Analyzed spending data; tabled results and imaged spending data through custom chloropleth maps

Seek — Aug 2021 - Mar 2022
- Built training data annotation platform with Next.js that has two features:
  - Delegates 200+ tasks to 18 team members every semester
  - Produces annotated video and audio data; ready to be consumed by ML models
- Developed backend service written in Serverless and Node.js that stores ML training data in DynamoDB using API Gateway and AWS Lambda
- Configured IAM roles, CloudWatch logs, and Billing for project administrators

Computer Science Tutor — Sep 2022 - Now
Wesleyan Scientific Computing & Informatics Center
- Leading tutoring sessions (7 hrs / week) for Computer Science courses of all levels
- Provided assistance related to object-oriented programming and data structures (Java, Python, C), functional programming (Standard ML), and web development (Javascript, SQL)

Summer Research Intern — May 2021 - Jul 2021
SparkLabs Venture Capital
- Pitched early-seed startups within ML data labeling market to firm partners
- Designed and built virtual space using Gather.town for 3 day event where 12 newly seeded startups attended workshops and private meetings

SELECTED PROJECTS

Soil360 — Jul 2022 - Now
Plant Based Data
- Designed Internet of Things device that measures soil data from multiple sensors
- Integrated device with AWS IOT to create cloud infrastructure to analyze optimal soil conditions for crop growth
- Created web application in Next.js that delivers visualizations of current soil conditions across multiple plots

You Can Only airBend Once (YOBO) — Jan 2021 - May 2021
QAC239 - Machine Learning (Audiovisual)
- Built model that identifies Aang from Avatar: The Last Airbender using YOLOv3, a real-time object detection system

EDUCATION

Wesleyan University | GPA: 3.59 — Aug 2019 - May 2023
B.A. Computer Science; minor in Data Analysis

Coursework: Software Engineering, Artificial Intelligence, Network Analysis, Machine Learning (Audiovisual), Applied Data Analysis, Bioinformatics Programming, Design of Programming Languages, Automata Theory and Formal Languages

SKILLS

Programming Languages: Java, Python, Javascript
Frameworks: React, Next.js, Node.js, Express.js, React Native
Databases: DynamoDB, MongoDB
Other: Tailwind CSS, Git, Agile / Scrum

INTERESTS

Nutrition, Agronomy, Food Justice
Non-relational databases
Brazillian Jiu Jitsu
Norm Macdonald