

# Matthew Kim

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## COURSEWORK

Software Engineering  
Artificial Intelligence  
Network Analysis  
Bioinformatics  
Programming  
Machine Learning  
(Audiovisual)  
Applied Data Analysis

## SKILLS

### PROGRAMMING LANGUAGES

Java  
Python  
Javascript

### WEB DEVELOPMENT

Next.js  
React  
React Native  
Node.js  
Express.js

### DATABASES

MongoDB  
DynamoDB

### CLOUD

AWS

TailwindCSS  
Git  
R

## INTERESTS

Nutrition and Agronomy  
Brazilian Jiu Jitsu  
Tech in Agriculture  
Soccernomics  
My Friends  
Norm Macdonald

## EDUCATION

Wesleyan University  
B.A. Computer Science; minor in Data Analysis  
GPA: 3.59

May 2023

The Hotchkiss School  
High School Diploma

June 2019

## EXPERIENCE

Wesleyan Scientific Computing & Informatics Center  
Tutor

Sep 2022 - Now

- Run tutoring sessions for students in 20+ Computer Science courses
- Offer help related to object-oriented programming and data structures (Java, Python) or functional programming (Standard ML)

Wesleyan Delta Lab  
Software Engineer

Aug 2021 - Sep 2022

- Constructed pipeline and internal annotation platform to expedite training data collection for ML model identifying COVID-related news clips
- Used AWS serverless to construct internal tools for data visualization
- Designed and developed a web application that compares campaigns' spendings on Facebook ads in each state during the 2020 US presidential election

## SELECT PROJECTS

Soil360

July 2022 - Now

Plant Based Data

- Designed IOT device that collects soil data from multiple sensors
- Connected device to AWS IOT to create cloud infrastructure to analyze optimal soil conditions for crop growth
- Created web application that delivers visualizations of current soil conditions across multiple plots

Presidential Facebook Ad Spending Interface

Apr 2022

Wesleyan Delta Lab

- Built interactive timeline using Facebook ad data over a 33 week period
- Imaged spending data through custom choropleth maps
- Analyzed net difference of campaign results and tabled results

Seek-API

Jan 2022 - Feb 2022

Wesleyan Delta Lab

- 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

Seek

Nov 2021 - Feb 2022

Wesleyan Delta Lab

- 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