# Matthew Kim

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## COURSEWORK

Software Engineering

Artifical 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

Brazillian Jiu Jitsu

Tech in Agriculture

Soccernomics

My Friends

Norm Macdonald

## EDUCATION

Wesleyan University                                            May 2023
B.A. Computer Science;  minor in Data Analysis
GPA: 3.59

The Hotchkiss School                                          June 2019
High School Diploma

## EXPERIENCE

Wesleyan Scientific Computing & Informatics Center        Sep 2022 - Now
Tutor
- 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                                    Aug 2021 - Sep 2022
Software Engineer
- 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 chloropleth 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