Matthew Kim

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Education

BA Computer Science, Data Science Minor - Wesleyan University, GPA: 3.59 Sept. 2019 — May 2023

Work Experience

Software Engineer Intern - Toast, Remote June 2023 — Aug. 2023

Toast is a restaurant point of sale company. Toast Tables is a waitlists and reservations service.

- Built out deposit booking and “table ready” SMS notifications using Apache Pulsar and Twilio
- Fixed Sev 2 issue in waitlist time estimator that incorrectly displayed 0 min wait times during restaurant service
- Reduced API requests by revamping booking sidebar resulting in $5K in monthly savings
- Refactored SMS service and implemented Sonarqube compliancy by reducing cognitive complexity and raising test coverage to 92%
- Developed product usage panel that tracks and informs free-tier restaurants of monthly booking quotas
- Extended DateTime library and refactored codebase to compute precise restaurant closeouts
- Solved customer care bugs, using Splunk and Datadog to debug and monitor production systems

Software Engineer I - Wesleyan Media Project, Middletown, CT Sept. 2021 — Sept. 2022

WMP is a political advertising research lab.

- Developed data labeling platform streamlining task delegation and data annotation for ML model
- Wrote tool using Facebook ad data to compare state-by-state 2020 US presidential campaign spending by tabling data and visualizing US choropleth maps
- Resolved storage and speed inefficiencies by migrating to cloud microservice for training data storage and retrieval
- Automated administrator duties by configuring IAM roles, managing CloudWatch logs, curating billing invoices

ML Teaching Assistant - Wesleyan University, Middletown, CT Jan. 2023 — May 2023

QAC239 is a proseminar in ML theory and application offered by the Wesleyan Data Science Department.

- Hosted office hours (4 hrs weekly), contributed to 12-week course curriculum; wrote problem sets in Python and trained models using Sci-kit Learn, Tensorflow, PyTorch, OpenCV

SCIC Tutor - Wesleyan University, Middletown, CT Sept. 2022 — May 2023

SCIC is a center composed of tutors hired by the Wesleyan CS and Data Science Department.

- Served students (10+ hrs weekly) with all purpose programming; topics include proofs, functional programming, web development, data science, object oriented programming

Projects

WesCam April 2023 — May 2023

WesCam is an end of school tradition where people send messages, play a matching game, and say goodbye.

- Architected and rebuilt 1:1 social chat platform; lead 3-person engineering team; handled 783 users with 1200+ messages corresponding and 200+ chat rooms created daily
- Scaled product; rolled out key features: message encryption, notifications, community board, user blocking, animations, chat room deletion, chat harassment policing

Mapping US Agriculture Commodity Flow Nov. 2022 — Jan. 2023

- Modeled graph network, pathed domestic commodity routes, analyzed traversal flow across the US, focusing on major export hubs and agricultural commodities. Data sourced from the Commodity Flow Survey.

You Only airBend Once (YOBO) Nov. 2020 — Dec. 2020

- Built real-time object detection model using YOLOv3 that identifies Aang from “Avatar: The Last Airbender”

Skills

Programming: Kotlin, Typescript, Java, Python, R | **Tools:** Vercel, Git, Jenkins, Splunk, Datadog, Sonarqube | **Cloud:** AWS
Frameworks: Nextjs, Nodejs, Reactjs, Dropwizard, Spring Boot, Expressjs | **Databases:** DynamoDB, PostgreSQL, MongoDB

Interests

Brazilian Jiu Jitsu, Open Source, Hiking, Agriculture, Agronomy, Vim, Country Music, Norm Macdonald