

Kevin Huang

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EDUCATION

Harvard University

BACHELOR OF ARTS IN COMPUTER SCIENCE

Cambridge, MA | Aug 2019 - June 2024

GPA: 3.94

Coursework: Machine Learning (MIT); ML for Social Impact; Data Structures and Algorithms; Systems Programming

WORK EXPERIENCE

META | SOFTWARE ENGINEER INTERN

Menlo Park, CA | May 2022 - Aug 2022

- Investigated, scoped out, and implemented design considerations for core user privacy APIs with a projected savings of **\$200M+ annually** by optimizing the computation, storage, and validation of critical user-privacy data configurations.
- Drove **Hack/PHP code optimizations** for core user privacy logic while guaranteeing application logic alignment with company, user-privacy policies and validating improvements using internal, data analysis tools, saving **\$250k+ annually**.
- Reduced loading times for team dashboards (minutes to seconds) by implementing **Python, Dataswarm pipelines** for efficiently precomputing data and optimizing **Presto/SQL** queries, enabling engineers to scope out ML modeling features.

GEM | SOFTWARE ENGINEER INTERN

San Francisco, CA | May 2021 - Aug 2021

- Drove development of the first **ML/AI** feature on the flagship product, creating the feature engineering and training/tuning infrastructure, resulting in a **text classification model** with **90%+ accuracy** to automate reply labeling for recruiting emails.
- Implemented customer facing dashboards with configuration modals and Okta integration using **React, GraphQL, Python**, and **SQL** to enable self-serve, team SSO configuration, decreasing on-boarding time for new customers by over 80%.

SHUTTERFLY | SOFTWARE ENGINEER CONTRACTOR

Remote | May 2020 - May 2021

- Transitioned manual, legacy logic to new, highly-available systems, built on **AWS Lambdas** and **Camunda BPMNs**.
- Created web-apps on **Angular** with **Python/Java** services for the production platform to support production workers.

LIFETOUCH | SOFTWARE ENGINEER INTERN

Eden Prairie, MN | June 2019 - Aug 2019

- Developed web-apps using **Angular** with **Spring Boot RESTful APIs** for efficient order ingestion and product creation.
- Designed load testing mechanisms using **Scala** and **Gatling Stress Test Tool** to adjust software development priorities.

ACTIVITIES

COMPUTATIONAL HEALTH INFORMATICS PROGRAM | NLP RESEARCHER

2022 - Present

- Iterating on the ERNIE 3.0 and RoBERTa NLP models on the Superglue dataset/tasks.

ML FOR SOCIAL IMPACT (HARVARD) | INCOMING HEAD TEACHING FELLOW

2022 - Present

- Created coursework on Google Colab teaching ML for social impact applications using **Scikit-learn** and **TensorFlow**.
- Sourced social impact partnership and speaker opportunities across mental health, social policy, and research applications.

HARVARD OPEN DATA PROJECT | PRESIDENT

2019 - Present

- Led the team that migrated the club to a native site **hodb.org** using **React** and **Gatsby.js** for hosting interactive content.
- Implemented club wide data-viz standards by developing in-house packages and wrappers for **R, Python**, and **React**.

HARVARD DATAMATCH | ALGORITHM TEAM MEMBER

2019 - 2022

- Developed ML model utilizing **SentenceBert transformers** built on **NLTK** to extract text embeddings for text similarity.
- Algorithm deployed to **40K+** students across 36 colleges with 1M+ calls made for matchmaking organization.

PROJECTS

LIVECOMPOSITION

FLASK, PYTHON, PYTORCH, MYSQL

- Built a webapp that automatically transcribes musical melody from audio (both live and prerecorded) onto sheet music using and integrating the **Melodia extraction ML algorithm** with support for storing, editing, and sharing pieces.

SKILLS

Languages: Python, Java, JavaScript/TypeScript, HTML/CSS, C++, SQL

Technology: React, Angular, Git, AWS, GCP, \LaTeX , Spring Boot, Flask, PyTorch, Tensorflow