

Yinghao (Howard) Wang

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EDUCATION

University of
California,
Los Angeles

BS, Computer Science
Expected March 2021
GPA: 3.8

Relevant Coursework:

Data structures,
Algorithms & Complexity,
Software Construction,
Operating Systems,
Programming Languages,
Database Systems,
Machine Learning

AWARDS/HONORS

Upsilon Pi Epsilon
Eta Kappa Nu
Dean's List

SKILLS

- Python
- C++/C
- JavaScript
- Java
- SQL
- HTML/CSS
- TensorFlow/Keras
- Scikit-learn
- React/Redux
- Node.js/Express
- Flask
- Postgres
- MongoDB
- Docker
- Google Cloud AI Platform, Dataflow, BigQuery, Storage
- AWS EC2, S3
- Apache Spark, Beam
- Linux/Bash
- Git

EXPERIENCE

Honey (joinhoney.com), Los Angeles — Machine Learning Intern

June 2019 - Present

- Used TensorFlow and Keras to create a neural network for similar products search via images by learning vector embeddings. Used FAISS API to efficiently index millions of vectors when searching for nearest neighbors
- Wrote SQL queries in Google Cloud BigQuery to extract training, validation, and testing datasets from click log data
- Implemented preprocessing and prediction pipelines using Apache Beam and Cloud Dataflow in Python, resulting in a throughput of 100+ predictions/second

Vertebrae, Santa Monica — Software Engineering Intern

June 2018 - September 2018

- Created an augmented reality e-commerce advertising platform using React/Redux
- Implemented RESTful APIs with Node.js, Express, AWS S3, MongoDB, and SQL for companies to create, read, update, and delete 3D assets
- Constructed an augmented reality experience builder, enabling users to create customized augmented reality experiences with products using JavaScript

Qualcomm, San Diego — Software Engineering Intern

August 2017 - September 2017

- Created an Android face recognition app for face unlocking
- Implemented the face enrollment and recognition UI with Java and XML files
- Wrote face and eyes detection algorithms using C++ and OpenCV
- Utilized Caffe and CNN models for facial feature extraction and recognition in C++

UCLA ACM, Los Angeles — Dev Team Director & Project Manager

September 2018 - Present

- Managed products created by ~30 students for internal use within ACM. Built the membership portal (used by 700+ students) using React & Redux, Node.js, Postgres, and Docker
- Automated the deployment process using Jenkins, AWS EC2, and Heroku

UCLA DevX, Los Angeles — Backend Developer

September 2018 - Present

- Implemented smarter search algorithms for events and locations on the mappening.io team with Flask/Python
- Created a dashboard with React/Redux that enabled admins to manually add events to a MongoDB database

PROJECTS

FUT Predictions

- Created an Angular web application that created custom cards in FIFA 19
- Built a regression model using Keras to predict ratings of players and RESTful APIs in Python to serve predictions using TensorFlow

Bruin Play

- Developed a website that allows users to play and download music. Implemented dynamic UI with React/Redux
- Designed a set of RESTful APIs for user authentication with Google and Facebook and querying MongoDB database to add, play, and download songs