Yinghao (Howard) Wang

howardwang15@g.ucla.edu • (559) 423-0778 • howardwang15.github.io • www.linkedin.com/in/yinghao-wang/

Education

University of California, Los Angeles   Expected March 2021

BS, Computer Science, GPA: 3.82
Coursework: Data Structures, Algorithms & Complexity, Software Construction, Operating Systems, Compilers, Database Systems, Machine Learning, Artificial Intelligence, Functional Programming, Data Science

Experience

Honey (joinhoney.com), Los Angeles — Machine Learning Intern   June 2019 – September 2019
- Used **TensorFlow** to create a neural network for similar products search via images by learning vector embeddings. Improved search throughput by **150%** using Facebook's FAISS API to efficiently search and index vectors
- Wrote **SQL** queries in **Google Cloud BigQuery** to extract training, validation, and testing datasets from click log data
- Optimized and automated preprocessing and prediction pipelines using **Apache Beam**, **Cloud Dataflow**, and **Airflow** in **Python**, resulting in a throughput increase by **100%**

Vertebrae, Santa Monica — Software Engineering Intern   June 2018 - September 2018
- Created an augmented reality e-commerce advertising platform using **React.js/Redux**
- Implemented RESTful APIs with **Node.js**, **Express**, **AWS**, **MongoDB**, and **SQL** 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.js/Redux**, **Node.js**, **PostgreSQL**, and **Docker**
- Automated the deployment process of websites with **Jenkins** pipelines, **AWS EC2**, and **Heroku**

UCLA DevX, Los Angeles — Backend Developer   September 2018 - Present
- Implemented search algorithms for events and locations near UCLA on the mappening.io team with **Flask/Python**
- Created a dashboard with **React.js/Redux** that enabled admins to manually add events to a **MongoDB** database

Projects

FUT Predictions
- Created an **AngularJS** web application that created custom cards in FIFA 19
- Built model with **TensorFlow** to predict player ratings and RESTful APIs in **Python** to serve model using **TensorFlow**

Bruin Play
- Developed a website that allows users to play and download music. Implemented dynamic UI with **React.js/Redux**
- Wrote RESTful APIs with **Node.js** for authentication and querying **MongoDB** database to add, play, and download songs

Skills

Programming Languages: Python, C++, C, JavaScript, Java, SQL, HTML, CSS
Tools/Frameworks: TensorFlow, Scikit-learn, React.js/Redux, Node.js/Express, Flask, PostgreSQL, MongoDB, Firebase, Docker, Apache Spark/Beam, Linux/Bash, Google Cloud, AWS, Git