ZIXIANG JI

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Education

University of California Los Angeles (UCLA) Los Angeles, CA

- *Computer Science and Mathematics: GPA 4.00/4.00* *Expected 2025*
- *Relevant Coursework: Data Structures and Algorithms, Computer Organization, Software Construction, Probability and Statistics, Machine Learning, Linear Algebra*

Professional Experience

Internship / Look4Event Project Los Angeles, CA

Frontend Software Engineer *May 2022 – Sept 2022*

- Devised user-flow-chart and key functionality-page (searching/filtering, smart recommendation, and event polling) using React and JavaScript; Implemented client-side google log-on authentication for large scale user base.
- Launched MVP version of event-planning web application in a month in collaboration with back-end team; Following 2 version updates, the project gained 96% satisfaction from feedback collected from UI/UX team.

Internship/ Referral_Finder Project Los Angeles, CA

Backend Software Engineer *Nov 2022 – Jan 2023*

- Built a web application to help UCLA upcoming graduate students to find alumni connections and possible referral opportunities; also contained recruitment information for Research Labs.
- Created Django Models, Forms, backend API, and unit-tests via Django; Designed Jobs, Account, School, and Company table in PostgreSQL; Customized school-email registration validation process using async tasks via Celery; About to launch MVP version.

Research Experience

Research / Southeast University (SEU), School of Engineering Nanjing, China

Research Assistant *Jan 2021 – May 2021*

- Proposed the semi-supervised log anomaly detection model DDA by modeling the extraction function Drain and the sequence anomaly detection function DeepLog.
- Developed front-end system to preprocess log files (i.e. parameters extraction, clustering); Utilized LTSM neural network to implement core functionality (i.e. pinpoint, detection) in the back-end system.
- Test DDA Model with HDFS and OpenStack datasets injected with abnormal log entries; Demonstrated DDA's superior performance in any anomaly types with over 90% success rate.

Research / Davidson College , Statistics Center Virtual Online

Research Assistant *June 2021 – August 2021*

- Created a complete dataset of 500 representative matches with 10 criteria (i.e. expected goals, attendance, distance, etc.); Utilized NumPy and Matplotlib to preprocess the data.
- Conducted Ordinary Least Squares Regression Analysis and found strong, negative correlation (-19.3%)between expected goals per game and COVID, with high significant level (1%).

Skills

- Python — 4 years | Advanced; Django, Flask, NumPy, PyTorch, Tensorflow
- C++ — 3 years | Proficient; Dynamic Programming, Data Structure
- HTML/JavaScript — 2 years | Skillful; React, CSS
- Database — 2 years | Skillful; MySQL, PostgreSQL

Publication

- Yumin Wang, **Zixiang Ji**, Design and Implementation of a Semi-supervised Anomaly Log Detection Model DDA. 2021 International Conference on Computer Communication and Artificial Intelligence (*CCAI*)