Xuanan Yue

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EDUCATION

University of California, Los Angeles — Mar 2022
Master of Science – Electrical and Computer Engineering — *Los Angeles, CA*
- GPA: 3.4/4.0
- Related Courses: Algorithms, Human-Computer Interaction, Data Mining, Reinforcement Learning, Computer Architecture

University of Connecticut — Aug 2016 – May 2020
Bachelor of Science in Electrical Engineering — *Storrs, CT*
- GPA: 3.7/4.0 | Mathematics Minor Degree with Honor Cum Laude

TECHNICAL SKILLS

Programing Languages: JavaScript, TypeScript, Python, HTML5, CSS, C/C++, Java, MATLAB, Golang
Frameworks & Tools: React.JS, Redux, Express.JS, Node.JS, Bootstrap, JQuery, Docker, Git, Linux, LaTeX, AWS, Figma, Mantine, MySQL, MongoDB, DynamoDB, NumPy, Pandas, Seaborn

WORK EXPERIENCE

Software Development Engineer Intern — May 2022 – Aug 2022
Ender — *Austin, TX*
- Analyzed tenant payment visibility bottlenecks and delivered a property manager portfolio webpage that can fetch and render live accounting data like balloon payments due, gross income per month, etc.
- Spearheaded the development of a new move-out system for property managers to process essential move-out steps including forwarding apartment keys, adding additional charges from move-out inspection, returning a security deposit, and sending a digital move-out summary for tenants.
- Designed high-fidelity UI prototypes with **Figma**, developed modularized component libraries with **React** and **Mantine** UI, and implemented 2D graphics effects with **JavaScript** to improve user experience.
- Optimized a server-side spotlight search function to support keyword-based full-text search.

PROJECTS

Wut2Eat! | *https://wut2eat2.herokuapp.com/* — Feb 2022 – Mar 2022
- Designed and developed a foodie social network, where users can sign in and post restaurant recommendations that will be rendered in real-time on a zoomable world-map.
- Single-handedly implemented a **RESTFul** backend with **Node.JS**, **Express.JS**, and **MongoDB** Atlas Database. Automated API docs generation with **Swagger**.
- Integrated Google Map API with a **React-based** UI to fetch and render exact restaurant location on the website. Used **JWT** to securely communicate with backend.

Players Paradise | *https://players-paradise1.herokuapp.com/* — Dec 2021 – Feb 2022
- Developed an e-commerce website from scratch for users to sell and buy second-hand PS4/5 game disks. The app supports payment with Paypal, email purchase confirmation and delivery location selection from a visible map. Sellers can check the order history and status through the admin page.
- Architected and delivered a **serverless** payment microservice framework to securely handle product checkout at scale. Used **AWS Lambda** to implement a Paypal payment verifier, a **DynamoDB** transaction worker, and a email notifier with verbose payment logging on **AWS CloudWatch**.
- Created frontend UI using **Typescript** and **React**. **Redux** is also utilized to allow caching on the frontend, which would reduce the number of requests to the backend and improve frontend performance.

Suicide Rates Overview 1985 to 2016 - Regress Analysis — Mar 2021
- Used **Python** to plot Pearson Correlation matrix heatmap, numerical feature histogram and diagrams of target variable against other variables of a dataset.
- Standardized data and applied feature selection with **F-score** regression function from Scikit-learn to preprocess data before training. Utilized multiple feature selection methods to identify the most significant features to reduce 50% training time while maintain the same level of prediction accuracy.
- Applied multiple machine learning algorithms and tunned hyper-parameters with **Grid Search Cross Validation** to find best combination of parameters.