Mandy Liou

mandyliou.github.io/portfolio/ | linkedin.com/mandyliou | mandyliou@alumni.emory.edu | Los Angeles, CA

TECHNICAL SKILLS

Programming Language: Python 3, JavaScript ES6+, SQL, R, Typescript, C
Servers: DigitalOcean, Linux, AWS EC2, AWS S3, Docker, Caprover, Akamai Linode
Front-End Development: HTML5, CSS, React, DOM manipulation, Tailwind, Redux Toolkit, WordPress, React Native
Back-End Development: Django 4, Node.js, PostgreSQL, Express.js, RabbitMQ, RESTful API, MongoDB, Apache Kafka

APP DEVELOPMENT

eMart | *https://github.com/mandyliou/eMart* | *Django, TailwindCSS, Docker, Akamai, AWS S3*　　　Sept 2023 – Present
Revolutionizing e-commerce through digital transactions
- Developed an innovative e-commerce platform with Django, elevating user experience by employing TailwindCSS to facilitate seamless transactions for buying, selling, uploading, and downloading digital files
- Orchestrated scalable and reliable data storage by utilizing Neon's Serverless Postgres and Docker for containerization; further enhanced data integrity and availability through Akamai and AWS S3
- Incorporated Stripe for secure billing, closely aligning the platform's features with e-commerce industry standards

JobFinder | *github.com/mandyliou/JobFinder* | *React Native, Expo, CSS*　　　Aug 2023 – Present
Streamlining the job-hunting experience by offering tailored listings and ease of access
- Crafted a mobile job search application in React Native, dynamically fetching real-time listings from multiple platforms via RapidAPI, and integrated key features like search and pagination for a comprehensive user experience
- Engineered a responsive and intuitive UI/UX design, employing best practices to ensure seamless use across various devices and optimize user engagement
- Deployed on Expo for instant QR code access and direct links, boosting user engagement and updates

FinTrackML | *github.com/mandyliou/FinTrackML* | *MongoDB, Express.js, React.js, Node*　　　May 2023 – Present
Programmed a finance data analytics app for tracking KPIs, transactions, and predictive revenue modeling
- Leveraged the MERN stack (MongoDB, Express.js, React, and Node.js) with TypeScript and Material-UI to develop FinTrackML, ensuring seamless financial data storage and retrieval, robust API development, and a responsive interface
- Utilized regression-js for revenue trend forecasting through machine learning, offering data-driven insights
- Integrated key features such as real-time KPI monitoring, transaction tracking, and dynamic financial data visualization, enhancing user interaction and understanding

Fitster | *github.com/mandyliou/fitster* | *React, Docker, PostgreSQL, FastAPI*　　　Dec 2022 – Feb 2023
Developed a multi-tier, microservice-based web application for fashion enthusiasts to share and view personalized outfits
- Implemented agile methodology in collaboration with a team of 5 engineers, resulting in a 35% increase in productivity
- Programmed a secure and user-friendly interface using FastAPI and JWT for authentication integration with PostgreSQL databases, resulting in a 98% decrease in security breaches
- Deployed successfully through CI/CD pipeline, validating features like user registration and outfit creation via unit tests

WORK EXPERIENCE

IVY Planner Consulting | *Web Developer* | Irvine, CA　　　Mar 2023 – Present
- Designed and implemented complex WordPress solutions, utilizing CSS, HTML, and JavaScript for website development
- Collaborated with the college admission team to gather requirements and develop a site-map, resulting in a visually appealing, user-friendly, and mobile-optimized platform for high school students seeking college admission support

All USA Realty | *Data Engineer* | La Palma, CA　　　May 2022 – Present
- Automated tax record keeping and rental property management using Excel, resulting in a reduction of manual errors
- Developed and maintained a tenant tracking system using Python and Javascript, providing an efficient solution for monitoring rental payments, ensuring accurate records for all properties, and improving data organization

Comprehensive Eye Care | *Optometrist Intern* | Hollywood, CA　　　Oct 2019 – Mar 2020
- Devised strategic roadmaps enhancing patient experience, increasing the overall NPS by 10% in 5 months
- Programmed equipment maintenance operations instructions, troubleshot breakdowns, performed preventive maintenance, and repaired request ticket resolution with a 17% increase in execution speed

Emory National Primate Research Center | *Research Assistant - Neuroscience* | Atlanta, GA　　　Jun 2017 – Jan 2018
- Investigated the correlation between brain tissue histology and neuroactivity using data analysis software, Plexon
- Arranged a daily workflow for a team of 13 members, resulting in a 22% increase in productivity through project management and process improvement skills

EDUCATION

Hack Reactor, *Advanced Software Engineering Certificate*　　　Sept 2022 - Feb 2023
Coursera, *Google Data Analytics Professional Certificate*　　　May 2022 - July 2022
Marshall B. Ketchum University - SCCO, *Doctor of Optometry Program*　　　Aug 2021 - May 2022
Emory University, *B.A.- Psychology; A.A. - Liberal Arts* | *Oxford Honors & Merit List*　　　Aug 2015 - Dec 2018
Peking & Nanjing University, *Chinese Studies* | *Visiting Scholar*　　　May 2016 - Jul 2016