

Mandy Liou

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EDUCATION

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

WORK EXPERIENCE

IVY Planner Consulting <i>Web Developer</i> Irvine, CA	Mar 2023 – Present
<ul style="list-style-type: none">Designed web solutions on WordPress, utilizing CSS, HTML, and JavaScript to improve site functionality and aestheticsConducted A/B testing to refine user experience, resulting in a 25% boost in user retention and session durationCollaborated 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 <i>Data Engineer</i> La Palma, CA	May 2022 – Present
<ul style="list-style-type: none">Automated tax record keeping and property management using Excel and custom scripting, resulting in a reduction of manual errors and improved efficiencyBuilt and sustained a robust tenant tracking system with Python and JavaScript, streamlining rental payment monitoring and bolstering data accuracy across propertiesUtilized SQL analytics to generate quarterly performance reports, supporting informed decision-making	
Comprehensive Eye Care <i>Optometrist Intern</i> Hollywood, CA	Oct 2019 – Mar 2020
<ul style="list-style-type: none">Devised strategic roadmaps enhancing patient experience, increasing the overall NPS by 10% in 5 monthsProgrammed equipment maintenance operations instructions, troubleshoot breakdowns, performed preventive maintenance, and repaired request ticket resolution with a 17% increase in execution speed	
Emory National Primate Research Center <i>Neuroscience Research Assistant</i> Atlanta, GA	Jun 2017 – Jan 2018
<ul style="list-style-type: none">Conducted data analysis using Plexon software to examine correlations between brain tissue histology and neuroactivity, applying statistical techniques transferable to RArranged a daily workflow for a team of 13 members, resulting in a 22% increase in productivity through project management and process improvement skills	

APP DEVELOPMENT

eMart <i>Django, TailwindCSS, Docker, Akamai, AWS S3</i>	Sep 2023 – Present
<i>Pioneering seamless e-commerce experiences with streamlined digital transactions</i> <ul style="list-style-type: none">Developed a Django-based e-commerce platform for buying, selling, uploading, and downloading digital files; incorporated Stripe for secure transactions and used TailwindCSS for enhanced user experienceOrchestrated 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	
JobFinder <i>React Native, Expo, CSS</i>	Aug 2023 – Present
<i>Optimizing job search with personalized listings, enhancing user accessibility and experience</i> <ul style="list-style-type: none">Crafted a mobile job search application in React Native, dynamically fetching real-time listings from multiple platforms through RapidAPI and deployed on Expo for QR code access and updatesEngineered an intuitive and responsive UI/UX using CSS, integrating features like search and pagination to optimize user engagement across various devices	
FinTrackML <i>MongoDB, Express.js, React.js, Node.js (MERN)</i>	May 2023 – Oct 2023
<i>Programmed a finance data analytics app for tracking KPIs, transactions, and predictive revenue modeling</i> <ul style="list-style-type: none">Leveraged the MERN stack with TypeScript and Material-UI to develop FinTrackML, ensuring seamless financial data storage and retrieval, robust API development, and a responsive interfaceUtilized regression-js for revenue trend forecasting through machine learning, offering data-driven insights	
Fitster <i>React, Docker, PostgreSQL, FastAPI</i>	Dec 2022 – Feb 2023
<i>Developed a multi-tier, microservice-based web application for fashion enthusiasts to share and view personalized outfits</i> <ul style="list-style-type: none">Led a team of five using Agile methodologies and SDLC best practices, achieving a 35% productivity increase; implemented GitLab CI/CD pipelines for feature validation and comprehensive unit testingCreated and deployed a fashion-centric web application using React and FastAPI, fortified with JWT authentication and PostgreSQL database management	

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