Mandy Liou

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

EDUCATION

Hack Reactor, Advanced Software Engineering Certificate	Sept 2022 - Feb 2023
Coursera, Google Data Analytics Professional Certificate	Jun 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
Nanjing & Peking University, Chinese Studies Visiting Scholar	May 2016 - Jul 2016

TECHNICAL SKILLS

Programming Language: Python 3, JavaScript ES6+, SQL, R **Servers**: DigitalOcean Linux, AWS EC2, Docker, Caprover

Front-End Development: HTML5, CSS, React, DOM manipulation, BootstrapCSS, Websockets, Redux Toolkit

Back-End Development: Django 4, Node.js, PostgreSQL, FastAPI, RabbitMQ, RESTful API, MongoDB, Apache Kafka

APP DEVELOPMENT

Fitster | Full stack | <u>github.com/mandyliou/fitster</u> | 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 (JSON Web Token) for authentication integration with PostgreSQL databases, resulting in a 98% decrease in security breaches
- Successfully deployed the application with a CI/CD pipeline and validated its functionality through unit tests, including key features such as user registration, login, outfit creation, and profile viewing

Auto Log | Full stack | github.com/mandyliou/auto-log | Django, React, SQLite3, RESTful API

Nov – Dec 2022

Designed a SPA for a car dealership and service appointment management

- Co-developed a full-stack project and successfully debugged over 200 issues
- Incorporated polling to connect separate microservices, resulting in a 50% increase in data transmission speed
- Integrated DOM manipulation to develop models for services, sales, and inventory microservices

Event Planner | Full stack | *github.com/mandyliou/event-planner* | *Django, React, Docker, RESTful API*Developed a SPA for conference management and integrated third-party APIs for location and weather data

Oct – Nov 2022

- Launched an application that enabled users to utilize CRUD on the conference, location, presentation, and attendee data, with CSRF authentication, resulting in a decrease of 30% in data errors
- Utilized Docker for RabbitMQ to manage microservices and create scalable queues for increased stability

Project Management | Full stack | <u>github.com/mandyliou/project-management</u> | *Django, HTML, CSS Designed a multi-tier web application for project organization*

Sep – Oct 2022

- Created and configured code using Django for Project and Task models, and implemented user authentication using CSRF to ensure data integrity and provide users with the ability to sign up, log in, and log out
- Constructed a task manager for project timelines, resulting in an increase in productivity and efficiency

WORK EXPERIENCE

Comprehensive Eye Care, Hollywood, CA

Oct 2019 - Mar 2020

Optometrist Intern

- 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

Young's Medical Center, Atlanta, GA

Jul 2017 - Jan 2018

Medical Assistant & Neurodiagnostic Technician

- Managed a team of 3 employees to streamline recordkeeping operations, resulting in a 20% increase in billing processes,
 25% increase in overall efficiency, and the maintenance of a comprehensive medical record database with 99% accuracy
- Overhauled existing patient confidentiality/HIPAA measures by identifying 3 fail points within the existing patient flow

UCLA Semel Institute, Los Angeles, CA

Jun – Aug 2018

Research Assistant

- Coordinated neurocognitive assessments and constructed a data-driven strategy that yielded a 14% decrease in exam time
- Recorded progress of patients during treatment, provided researchers with a better understanding of the brain's role in attention, learning, and memory in schizophrenia with data-driven analytics review and post-treatment care data

Yerkes National Primate Research Center, Atlanta, GA

Jun 2017 - Jan 2018

Research Assistant in anxiety, depression, and PTSD

- Utilized Plexon for brain tissue histology to analyze the connection between the amygdala and neurohormone activities
- Arranged a daily workflow for a team of 13 members, resulting in a 22% increase in productivity