Matthew Jones

jonesmat@usc.edu (213) 631-8562 MWJones96 mwjones96.github.io

EXPERIENCE

USC Alzheimer's Therapeutic Research Institute (ATRI) — San Diego, CA
Programmer Analyst II — September 2020 – Present

- Designed, implemented and integrated new features into Electronic Data Capture (EDC) system, featuring a Django-based backend and React-based frontend, to assist in conducting clinical trials on human subjects.
- Utilized by over 1,000 medical professionals worldwide to conduct research into therapeutic methods for the treatment of Alzheimer's Disease, while simultaneously working towards the development of an eventual cure.
- Developed portal reports displaying graphical representations of information about files stored in system, building both backend and frontend components, with an emphasis on rigorous adherence to test and behaviour-driven development.
- Delivered live demonstrations of current projects to supervisors and team members on a weekly basis.

Amazon — Seattle, WA
Software Development Engineer Intern — May 2019 – August 2019

- Designed, built and deployed AlexaHEAT dashboard, using Java, JavaScript and DynamoDB, providing over 300 Amazon employees easy access to real-time tailored datasets for their own projects.
- Implemented backend to fetch and organize data sets from database to be embedded on the webpage using JSP templates, and built frontend for custom tooltips, animations and DOM manipulation.
- Reduced time taken by employees to find and export data for their workflow by 70%.
- Exhibited final dashboard and delivered presentation to over 50 employees in the Alexa Organization.

SKILLS

Languages: Python, Java, Kotlin, C, C++, JavaScript, Go, PHP
Full Stack: Django, Flask, Node.js, HTML, CSS, Angular, React, PostgreSQL, DynamoDB, AWS, GCP, Azure
Other: Unix/Linux, Android SDK, Git, Atlassian Tools, TravisCI

PROJECTS

Research Portal — December 2019

- Co-ordinated with team of six others to build new website for USC CSSE, rebuilding old WordPress tech stack into Node.js, connecting USC students, staff and alumni worldwide.

Weenix OS — April 2019

- Implemented features into a Unix-style Operating System with a team of three others, including threads, processes, scheduling, file system and virtual memory.

eBay Search Tool — April 2019

- Integrated eBay API into full stack application with Node.js-based backend and Angular-based frontend to make custom search queries. Built secondary frontend as a native Android app.

EZ-ML: SB Hacks V — January 2019

- Developed and deployed SaaS web app made with a team of three others, allowing users to create ML models without writing code, using Python, Flask, Bootstrap, GCP Cloud Functions and Twilio API.

EDUCATION

University of Southern California — Los Angeles, CA
Master of Science in Computer Science – 3.55/4.00 — May 2020

University of Exeter — Exeter, UK
Master of Engineering in Electronic Engineering and Computer Science – 2:1 — July 2018
Bachelor of Engineering in Electronic Engineering and Computer Science – 2:1 — July 2017