



Matthew Jones

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 MWJones96

 mwjones96.github.io

EXPERIENCE

USC Alzheimer's Therapeutic Research Institute

San Diego, CA

Programmer Analyst II

September 2020 – Present

- Designed and implemented new features into an Electronic Data Capture system, actively used by more than 1,000 medical professionals worldwide, featuring a Django-based backend and React-based frontend.
- Developed backend APIs to fetch and process tailored datasets required by ClinOps teams for current and future clinical trials, using Django REST Framework and PostgreSQL.
- Created rich custom reports on the frontend integrated with the API to deliver effective data visualization for the datasets that is intuitive to both technical and non-technical users.

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%.

University of Wales

Swansea, UK

Software Developer Intern

June 2018 – August 2018

- Integrated two programs, Teddy and Bear, into a C++ Qt GUI application called TeddyBear, eliminating the need for intermediate file formats.
- Designed adapter to map the output of Teddy from RAM into the input of Bear for seamless integration, aiding future usage by saving time, money and disk space.
- Developed TeddyBear for research use by CyDen, the second largest light-based hair removal company in the UK, reaching over 400,000 customers annually.

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, TravisCI

PROJECTS

Research Portal

December 2019

- Coordinated 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.

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