Matthew Jones

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EXPERIENCE

USC Alzheimer's Therapeutic Research Institute — San Diego, CA
Full Stack Developer II — September 2020 – Present

- Integrated brand new core features into medical data capture system, used by over 1,000 clinical staff, developing for both Django backend and React frontend.
- Developed REST APIs to set and reset user email preferences, and to automatically send out emails to those with preferences set, on any asynchronous event.
- Redesigned GUI for patient referral system, used by over 100,000 clinical staff, in reponse to updated requirements, using GraphQL to easily fetch from multiple databases.
- Fixed known bugs and ensured all deployed code was rigorously-tested, ensuring high maintainability, reliability, scalability and compliance with modern design practices.

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 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, Angular, React, PostgreSQL, DynamoDB, GraphQL, 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