

Matthew Jones

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EXPERIENCE

USC Alzheimer's Therapeutic Research Institute

San Diego, CA

Programmer Analyst II

September 2020 – Present

- Integrated brand new core features into medical data capture system, used by over 1,000 clinical staff, designing new solutions for both Django backend and React frontend
- Developed REST APIs to set and reset user email preferences for over 3,000 users, and to batch send emails to those with preferences set, triggered by asynchronous events
- Redesigned GUI for patient referral system, used by over 100,000 clinical staff, in response to updated requirements, using GraphQL to create custom APIs to fetch from multiple databases
- Fixed known bugs and ensured all deployed code was rigorously tested, ensuring significantly higher code quality, maintainability, scalability and reliability

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 more than 10,000 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