

# Matthew Jones

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## EXPERIENCE

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### 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 easily 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

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**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

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### 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

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### 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