




# Matthew Jones

mwjones96.github.io

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 (213) 631-8562

 MWJones96

 mwjones96

## EDUCATION

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### University of Southern California

Master of Science in Computer Science – 3.55/4.00

Los Angeles, CA

May 2020

### University of Exeter

Master of Engineering in Electronic Engineering and Computer Science – 2:1

Bachelor of Engineering in Electronic Engineering and Computer Science – 2:1

Exeter, UK

July 2018

July 2017

## SKILLS

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**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

## EXPERIENCE

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### USC Alzheimer's Therapeutic Research Institute (ATRI)

San Diego, CA

#### Programmer Analyst II

September 2020 – Present

- Designed, implemented and integrated new features into EDC (Electronic Data Capture) system, featuring a Django-based backend and React-based frontend, to assist in conducting clinical trials on human subjects.
- Utilized by 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.

## PROJECTS

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### Research Portal

December 2019

- Co-ordinated with team of 6 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 3 others, allowing users to create ML models without writing code, using Python, Flask, Bootstrap, GCP Cloud Functions and Twilio API.

## EXTRA-CURRICULAR ACTIVITIES

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**HackSC Volunteer:** Mentored students at one of the largest Hackathons in California, with over 800 participants.

**UKMT Senior Mathematical Challenge:** Achieved 3rd highest score out of more than 100 test-takers.