

# Matthew Jones

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## EXPERIENCE

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### Amazon Web Services

Arlington, VA

#### Software Development Engineer I, Inspector

October 2021 – Present

- Created new features for the Inspector service, using CI/CD to ensure high quality and frequent delivery for our 30,000 active customers in 19 regions worldwide
- Developed new function for configuring Docker images in ECR repositories in the Python Ops tool for our team's 25+ developers, saving an estimated 1 hour per developer, per week
- Undertook oncall shifts once per month, monitoring alarms and performing complex Ops tasks to resolve important tickets timely, 24 hours a day

### USC Alzheimer's Therapeutic Research Institute

San Diego, CA

#### Programmer Analyst II, Informatics

September 2020 – August 2021

- 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; created GraphQL APIs to fetch data for thousands of patients from multiple databases

### Amazon

Seattle, WA

#### Software Development Engineer Intern, Alexa Excellence

May 2019 – August 2019

- Developed dashboard for AlexaHeat, an Ops dashboard used by more than 300 employees, cutting down information seek time by 70%

### University of Wales

Swansea, UK

#### Software Developer Intern

June 2018 – August 2018

- Integrated two computationally-intensive C++ applications for simulating laser hair removal, for R&D usage by product manufacturer reaching 400,000 customers annually

## SKILLS

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**Languages:** Python, Java, Rust, C, C++, JavaScript, Go, PHP

**Full Stack:** Django, Node.js, Angular, React, PostgreSQL, DynamoDB, GraphQL, AWS

**Dev Tools:** Unix/Linux, Git, Docker

## 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

May 2020

### University of Exeter

Exeter, UK

Master of Engineering in Electronic Engineering and Computer Science

July 2018

Bachelor of Engineering in Electronic Engineering and Computer Science

July 2017