Matthew Jones
mwj96.dev

jonesmat@usc.edu | (213) 631-8562 | mwjones96 | MWJones96 | mwjones96

EDUCATION

University of Southern California — Los Angeles, CA
Master of Science (MS) in Computer Science – 3.55/4.00 — May 2020

University of Exeter — Exeter, UK
Master of Engineering (MEng) in Electronic Engineering and Computer Science – 2:1 — July 2018
Bachelor of Engineering (BEng) in Electronic Engineering and Computer Science – 2:1 — July 2017

SKILLS

Languages: Python, Java, Kotlin, C, C++, JavaScript, Golang, PHP
Full Stack: HTML, CSS, Flask, Node.js, Angular, MySQL, MongoDB, DynamoDB, AWS, GCP, Azure
Other: Unix/Linux, Android SDK, Git

EXPERIENCE

Amazon — Seattle, WA
Software Development Engineer Intern — May 2019 – Aug. 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%.
- Demonstrated final dashboard and delivered presentation to over 50 employees in the Alexa Organization.

University of Wales, Trinity Saint David — Swansea, UK
Software Developer Intern — June 2018 – Aug. 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.
- Presented TeddyBear to CyDen's Chief Scientific Officer and University supervisors.

PROJECTS

Research Portal: 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: 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.
Weenix OS: Programmed core functionality with team of 3 others for custom Operating System written in C, including processes, threads, scheduler, file system and virtual memory.
eBay Search: Created comprehensive web app using Node.js, Express, Angular, Bootstrap and JavaScript using eBay API to search for products and provide detailed information to the user. Reused existing backend code and made new Android app using Java to act as an alternative frontend for mobile users.

EXTRA-CURRICULAR ACTIVITIES

HackSC: Mentored students at one of largest Hackathons in California, with more than 800 participants.
IEEE BTAS: Supervised conference with more than 130 international researchers.
UKMT Senior Mathematical Challenge: Achieved 3rd highest score out of more than 100 test-takers.
Duke of Edinburgh Award: Completed modules in skill, volunteering, sport and expedition.