Matthew Jones

✉ jonesmat@usc.edu   📞 (213) 631-8562   ⚙ MWJones96   🌐 mwjones96.github.io

EXPERIENCE

USC Alzheimer's Therapeutic Research Institute (ATRI) <div align="right">San Diego, CA</div>
Programmer Analyst II <div align="right">September 2020 – Present</div>

- Designed and implemented new features into Electronic Data Capture (EDC) system, featuring a Django-based backend and React-based frontend, to assist in conducting clinical trials on human subjects.
- Utilized by over 1,000 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 backend APIs and rich frontend components to create reports for ClinOps teams displaying detailed and personalized information about the current study to aid in future decision-making.

Amazon <div align="right">Seattle, WA</div>
Software Development Engineer Intern <div align="right">May 2019 – August 2019</div>

- 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%.

University of Wales, Trinity Saint David <div align="right">Swansea, UK</div>
Software Developer Intern <div align="right">June 2018 – August 2018</div>

- 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, HTML, CSS, Angular, React, PostgreSQL, DynamoDB, AWS, GCP, Azure
Other: Unix/Linux, Android SDK, Git, TravisCI

PROJECTS

Research Portal <div align="right">December 2019</div>

- Co-ordinated with team of six 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 <div align="right">January 2019</div>

- 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 <div align="right">Los Angeles, CA</div>
Master of Science in Computer Science – 3.55/4.00 <div align="right">May 2020</div>

University of Exeter <div align="right">Exeter, UK</div>
Master of Engineering in Electronic Engineering and Computer Science – 2:1 <div align="right">July 2018</div>
Bachelor of Engineering in Electronic Engineering and Computer Science – 2:1 <div align="right">July 2017</div>