

Jeffrey Lee

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Education

Bachelors of Science | 2016-2020 | University of California, San Diego

Major: Computer Science

Cumulative GPA: 3.97 Major GPA: 4.0

Experience

Co-Owner and Chief Technology Officer | 605 Industries | Jan. 2017 – Present

- Managed bi-weekly meetings to design/improve/present software architecture
- Coordinated development workflow, and programmed the core backend infrastructure with PHP7 & Laravel

Software Engineering Intern | Yahoo! | Jun. 2017 – Sep. 2017

- Used Pyspark on YARN to concurrently process over **100 million rows** of media metadata from a Hive table
 - Clustered metadata by temporal spatial attributes to auto generate photo albums for users
 - Whole process runs to completion in under **30 minutes**
- Presented to team about Spark cluster resource and partition optimization to speed up Spark jobs by 1000x
- Created a REST microservice using Spring Boot to serve generated albums to client-side

Student Software Developer | Calit2 | Mar. 2017 - Jun. 2017

- Commissioned webapp projects by businesses; familiar with REST, HTTP/HTTPS protocols, and OAuth2

Volunteer Regression Tester | American Red Cross | Mar. 2017 - Jun. 2017

- Performed regression tests on a sandbox site before changes were deployed to production

Projects

<https://github.com/jeff4elee?tab=repositories>

Smart Alarm [Mobile App] – Alarm that wakes up the user at the best time possible based on traffic data

- Developed a REST endpoint with PHP7, hosted on an AWS EC2 instance configured in a VPC alongside an RDS
- Utilized FCM to create push notifications to the client devices

Course Path Finder [Web App] - Mapped out a visualization of UCSD's course catalog in graph form

- Web-scraped course offerings data and cached it in a csv file for future reads
- Used the flask framework to serve the web app, and NetworkX and d3js to dynamically create graphs

R.O.B.O.T [Twitch IRC Bot] – Chatbot that delivered up to date Reddit content to Twitch chats

- Utilized multithreading and an asynchronous queue to handle concurrent HTTP requests to Reddit's API

Alizon [Chrome Extension] – Used ajax calls to Amazon's API to discover similar AliExpress products found on Amazon

Cryptfolio [Command line Tool] – Easy portfolio maintenance and tracking of cryptocurrency

Awards

1st Place, SDHacks 2016 - (80 competitors) - Tasked to develop a content producing chatbot using the Twitch API

1st Place, SF CodeDay 2016 - (300 competitors) - Awarded for development of an online two player game

2nd Place, UCSD WIC Competition 2016 - (160 competitors) - Solved difficult algorithmic questions on Hackerrank

Skills & Abilities

Languages: Java, Python, PHP, SQL, C++, C, JavaScript, HTML/CSS

Frameworks: Laravel, Spring Boot, Flask, Django, Apache Spark, React & Redux

General: Git, Redis, Android, Database Design, LAMP stack, AWS, REST, Machine Learning, Hadoop