

KenilVora

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EDUCATION

UC San Diego B.S. Mathematics and Computer Science - Provost Honors

December 2019

EXPERIENCE

PayPal Software Engineering Intern | Core Payments Team

June 2018 - Sept 2018

- Deployed **Highly Scalable** automated internal tools to analyze & optimize Coverage Data for the **Payments Engine**
- Implemented features actively used by the company to fine-tune system stability and eliminate redundancies
- Technologies Used: **Java, Spring Framework, Apache Maven, Apache Groovy, Jenkins, IBM ODM API**

UCSD CSE Department Undergraduate Teaching Assistant | Professor Gary Gillespie

Jan 2018 - Present

- Leading office hours/discussions, grading homeworks/exams and teaching essential software engineering tools
- Analyzing/debugging students code & explaining key programming/software engineering concepts
- Tutoring Data Structures, Software Tools & Techniques, and Object Oriented Design Courses
- Technologies Used: **C, C++, Java, Python, AWS, Valgrind, GDB, BASH, Unix, React, Firebase, Travis, Git/Github**

Triton Software Engineering Software Developer

Jan 2018 - Present

- Providing reliable pro-bono technical services for non-profits using Agile Development Methodologies
- Holding weekly staff meetings, discuss forward planning and setting target goals for new and ongoing projects

San Diego Supercomputer Center Undergraduate Research Assistant

Feb 2018 - June 2018

- Modelled heuristics to predict corrupted traceroutes and downed networks to monitor critical cyberinfrastructure
- Designed interactive online software to further QoE research efforts on **Internet Topology** at **CAIDA**
- Gamified **crowdsourcing** data collection tasks to increase user interaction & analyze millions of IPv6 traceroutes
- Technologies Used: **JavaScript, MeteorJS, Bootstrap, MongoDB**

PROJECTS

Hash for Cash Awarded Best Use of Linode API at LA HACKS

April 2018

- A web application that mitigates DDoS attacks & mines **Bitcoins** by harnessing wasted computational power
- Prevents theft of server files through client-side puzzles making data theft exponentially slower and difficult
- Technologies Used: **Python, JavaScript, Node.js, JQuery, Django, SHA-256**

Food vs Lifestyle Data Science/NLP Research Project

March 2018

- Researched correlations between student dietary choices, their academic performance and overall quality of life
- Performed **Sentiment Analysis** by converting keywords to Count Vectorizers for SVM Model integrations
- Technologies Used: **Python, Natural Language Toolkit (NLTK), Scikit-learn, NumPy, SciPy, Pandas, Keras**

Whispering Pi Voice Controlled IoT Smart Lamp

Dec 2017

- Developed a hardware system that recognizes input voice commands and returns corresponding LED grid output
- Integrated Amazon Alexa on Raspberry Pi & added customized Alexa skills to achieve voice recognition functionality
- Technologies Used: **C, Python, JSON, SQL, REST API, Raspberry Pi**

AmbiLamp IoT Weather Monitoring System

Oct 2017

- A self-aware security lamp that remotely records & monitors the surrounding using temperature & noise sensors
- Technologies Used: **HTML, CSS, JavaScript, PHP, Apache, Python, MongoDB**