Kenil Vora

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EDUCATION

University of California San Diego **B.S. Mathematics & Computer Science - Provost Honors** Dec 2019

- **Coursework:** Algorithms, Data Structures, Recommmender Systems, Optimization, Data Science, Cryptography

EXPERIENCE

Software Engineering Intern **PayPal | Core Payments ACE Team** June 2018 - Sept 2018

- Developed & Deployed internal automated tools for the Payments Engine to efficiently extract, analyze & report Coverage Data for over 100k Business Rules & Test Cases executed with every Jenkins CI build
- Implemented features actively used by the company to determine build success/failure by monitoring Rules Coverage with every CI job triggered on Jenkins
- Languages & Frameworks: **Java, Spring Framework, Apache Maven, Apache Groovy, Jenkins, IBM ODM API**

Undergraduate Teaching Assistant/Tutor **Professor Gary Gillespie | UCSD CSE Department** Jan 2018 - Present

- Teaching essential software development tools, holding office hours, grading weekly homeworks & exams
- Analyzing & debugging students code & explain programming/software engineering concepts
- Tutoring Data Structures, Software Tools & Techniques, and Object Oriented Design Courses
- Languages & Frameworks: **C, C++, Java, Python, Valgrind, GDB, BASH, Unix, Firebase, Travis, Git/Github**

Full Stack Software Developer **Triton Software Engineering** 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

Undergraduate Research Assistant **San Diego Supercomputer Center | CAIDA** Feb 2018 - June 2018

- Designed interactive online software to further QoE research efforts on Internet Topology and Internet Traffic
- Gamify tedious Crowdsourcing data collection tasks like Speed-Testing to collect & analyze IPv6 traceroutes
- Languages & Frameworks: **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
- Languages & Frameworks: **Python, JavaScript, Node.js, JQuery, Django**

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
- Preprocessed data & added vizualizations & heat maps to represent student habits using data collected
- Languages & Frameworks: **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
- Modelled a cost effective way to control appliances & thus eliminating the use of expensive Amazon smart devices
- Languages & Frameworks: **C, Python, JSON, SQL, REST API, Raspberry Pi**

AmbiLamp **IoT Weather Monitoring System** Oct 2017

- A multi-function security lamp that remotely records & monitors the surrounding using temperature & noise sensors
- Languages & Frameworks: **HTML, CSS, JavaScript, PHP, Apache, Python, MongoDB**