Clayton A. Clark

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EDUCATION

University of California Irvine, *B.S. Degree in Computer Science*   Expected June 2021
Significant Completed Coursework: Python w/ Software Libraries; Boolean Algebra; Probability & Statistics; Programming in C/C++; Computer Networks; Information & Retrieval; Data Structures

PROJECTS

Near Field Communication Smart Lock   August 2017-September 2017
- Led 3-person team by coding the program's top project, a Raspberry Pi with Python to open a lock through Near Field Communication.
- Used 3D printing, Corel-Draw, SolidWorks, and laser cutting to design a housing for the lock.

Lit Social Media Search Engine   July 2016
- Integrates the feeds from YouTube, Reddit, and Giphy into one search engine using each of the respective API's, Python, Google App Engine, HTML, and CSS.
- Website Link: http://alphabet-1384.appspot.com/

RELATED EXPERIENCE

Arista Networks, San Francisco, CA   June 2019-Present
Software Engineering Intern
- Focused primarily on software, written in Go, that runs general network/switch management, provisioning, and orchestration on data centers
- Fixed the backup function of a proxy, that pulls data from a set of devices, by removing redundant/not supported code that is done in other parts of the system
- Fixed a bug in a dumper module, which launches a proxy and translation layer, where if the proxy or layer crashed, the program would wait infinitely instead of exiting early and closing all processes.

Long Beach STEM Collaborative, Long Beach, CA   June 2018-Present
Engineering and Programming Instructor
- Project lead for STEM enrichment academy at California State University, Long Beach.
- Teaches Computer Science and engineering fundamentals, such as creating a Google Home, to 60+ high school juniors and seniors

Cornell University   April 2018-July 2018
Data Analytics Certification Program
- Use data and key performance indicators to build a dashboard that uses visuals to improve your understanding of complex business situations.
- Create and validate regression models that can be used to determine the effect of attributes on a decision and predict likely outcomes.

UCI Office of Access & Inclusion of the Donald Bren School of ICS, Irvine, CA   July 2016-Present
Engineering Project Coach and Mentor
- Mentor 70+ incoming freshmen in college level engineering curriculum for upcoming classes
- Guides students in creating 40+ projects using the Raspberry Pi and Python with an Internet of Things focus

Google, Seattle, WA   July 2016
Computer Science Summer Institute Participant
- 1 of 30 high school seniors selected nationally to attend Google's 3-week intensive Computer Science Summer Institute at the Google Seattle Campus to learn coding.
- Learned JavaScript and Python, while creating web apps with Google App Engine, API's, HTML, and CSS.

ORGANIZATIONS

100 Black Men of Orange County Passport to the Future Program, Irvine, CA   October 2017-Present
STEM Academy Instructor
- Instructs 30+ young men grades 6-12 in Raspberry Pi and Python curriculum.
- Implementing curriculum which teaches students how to fabricate quadcopters from scratch.

University of California, Irvine Innovators Squad   October 2018-Present
President of Innovation and Outreach
- Trains students and trainers how to use microcomputers and Python – trained over 300 students directly and indirectly

SKILLS

- Kubernetes, Docker, AWS, R, C++, Go, Flutter, Python, Linux, Git, Gerrit, HTML & CSS, Javascript