



Professional Experience

INTUIT | SOFTWARE ENGINEER INTERN

May 2017 – Aug 2017

- Full stack development with Node, Angular for Identity team expanding APIs and features of authentication services for TurboTax, QuickBooks etc.
- Integrating new sign in page for care agent login management tool to include MFA for increased security and single sign-on for more productivity
- Expanded and updated unit and end-to-end testing suite with Protractor JS
- *Thousands* of accesses expected weekly through new sign in experience

KAISER PERMANENTE | DEVOPS AND CLOUD ENGINEER INTERN

May 2016 – Aug 2016

- Developed Python program to verify and report security certificate compliance statuses for web hosts in a server environment
- Automated setup of various server configurations (i.e. Artifactory, Gestio IPAM, BIND) deployed to support new cloud prod servers (Ansible & Chef)
- Presented mobile app design directly to CIO Dick Daniels and other IT executives for new enterprise ride sharing program

NEW SUN ROAD | SOFTWARE DEVELOPER INTERN

Jan 2016 – May 2016

- Worked with the CTO to develop an Android application for Ugandan small businesses to sign up for energy quotes and access our microgrid
- Built with Java/ Android Studio; includes dynamic JSON content generation

HD RUNNERS | ENGINEERING INTERN

Jun 2015 – Aug 2015

- Automated formatting of raw data from races with Visual Basic (MS Word)
- Increased energy efficiency from 20 batteries to video cameras from under 80% to 97%. implementing DC-DC Buck converters
- Designed outdoor wireless solutions with remote cameras and computers

Research

ANTHOFF LAB: RESEARCH DEVELOPER | Julia

Aug 2016 – May 2017

- Augmented integrated assessment modeling libraries used by White House for environmental projections and decisions
- Developed graph visualization features to display connections between parameters and variables in complex user models
- Enhanced input data processing functions and expanded output data frame capabilities so users can better analyze results

Projects - github.com/girishbalaji

NBA'S BEST: PLAYER ANALYTICS 2015 | R, R libraries (i.e. dplyr, shiny)

Sep 2016 – Dec 2016

- Analyzed NBA player data using machine learning techniques, SVD/ PCA, to rank players effectiveness by positions
- Scraped data from NBA statistics database; cleaned and analyzed data with R to generate report on individual player value

VOICE CONTROLLED CAR | Python, C, NumPy, TI Launchpad,

Sep 2016 – Dec 2016

- Built entire voice controlled car circuit including microphone with analog filters connected to TI Launchpad for controls
- Used NumPy for supervised learning for accurate command response; C to program car stability on direction and speed

P1N: SECURE WIRELESS ANDROID DOOR UNLOCKER | Java, Android, Arduino C

Sep 2015 – Jun 2016

- Developed an Android app which communicates securely with an Arduino through Bluetooth to open/unlock doors
- Focused on user interface development, holistic system design integration, and the joint mechanical and electrical system.

Education

UC BERKELEY COLLEGE OF ENGINEERING

Aug 2015 – May 2019

B. S. Electrical Engineering and Computer Science; GPA: 3.85

Courses: Artificial Intelligence; Signals and Systems; Efficient Algorithms and Intractable Problems; Computing with Data; Data Structures; Program Composition; Designing Info. Devices and Systems I & II; Linear Algebra and Diff Equations; Discrete Mathematics and Probability Theory;

Skills

LANGUAGES:

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|---------|-------------|--------------|
| ▸ Java | ▸ Python | ▸ R |
| ▸ SQL | ▸ HTML/ CSS | ▸ Javascript |
| ▸ Julia | ▸ Scheme | ▸ C |

FRAMEWORKS/ TOOLS:

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|------------------|---------|----------------|
| ▸ SciPy | ▸ NumPy | ▸ Android |
| ▸ Android Studio | | ▸ TI Launchpad |

DEVOPS TOOLS:

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| ▸ Ansible | ▸ Vagrant |
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Awards

Eta Kappa Nu: EECS Honor Society |

Industrial Relations Officer

Boy Scouts of America | Eagle Scout