

# GIRISH BALAJI



www.girishbalaji.me



girishbalaji



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## Experience

### INTUIT | SOFTWARE ENGINEER INTERN

MAY 2017 – AUG 2017

- Designed and implemented new sign in policy for customer service tool with multifactor authentication (MFA) and single sign on (SSO)
- 6000+ secure accesses logged *daily* through new sign in experience
- Enhanced unit and integration testing suite with Protractor
- Developed web pages and APIs to expedite customer tech support

### ANTHOFF LAB | RESEARCH DEVELOPER

AUG 2016 – MAY 2017

- Augmented climate cost modeling libraries used by the White House
- Developed graph visualization features for complex climate models

### KAISER PERMANENTE | DEVOPS INTERN

MAY 2016 – AUG 2016

- Developed security certificate compliance verification program for web hosts in a server environment
- Automated setup of server configurations (Artifactory, Gestió IPAM, BIND DNS) deployed to support new cloud production node
- Designed and presented enterprise mobile carpooling app for CIO

### NEW SUN ROAD | SOFTWARE DEVELOPER INTERN

JAN 2016 – MAY 2016

- Developed Android app to understand rural Ugandan energy usage
- Integrated dynamic survey generation and persistent data storage

### HD RUNNERS | ENGINEERING INTERN

JAN 2015 – MAY 2015

- Automated raw race data wrangling with Visual Basic (Word) scripts
- Increased camera energy efficiency (80% → 97%) with buck converter

## Projects

### NBA 2015 PLAYER ANALYTICS – FALL 2016 | R, R libraries (i.e.dplyr)

- Analyzed player data using machine learning techniques (SVD/ PCA) to rank player effectiveness and value by position
- Scraped, cleaned, and analyzed data from NBA site to create report

### VOICE CONTROLLED CAR – FALL 2016 | Python (NumPy), C

- Built entire voice controlled car circuit with analog audio filtering
- Used supervised learning for accurate command classification
- Designed feedback control for direction and speed in TI Launchpad

### P1N – FALL 2015 | Java, Android Studio, Arduino

- Android app connects via Bluetooth to safe Arduino door unlocker
- Designed Android app UI and physical unlocking control system

## Education

### University of California, Berkeley

B.S. Electrical Engineering and Computer Science (EECS)

May, 2019 | GPA: 3.85

## Courses

(Current) Machine Learning; Computer Security; Robotics;

(Past) Artificial Intelligence; Signals and Systems; Machine Structures; Efficient Algorithms & Intractable Problems; Computing with Data; Data Structures; Designing Information Devices and Systems I & II; Discrete Math & Probability Theory

## Skills

### Languages

Java, Python, R, JavaScript, Julia, C, SQL, HTML/ CSS,

### Frameworks/ Tools

NumPy, SciPy, Node.js, AngularJS, Protractor, Android Studio, TI Launchpad,

### DevOps Tools

Ansible, Vagrant

## Awards

EECS Honor Society – Eta Kappa Nu | Industrial Relations Officer (Fall 2017)

Eagle Scout | Boy Scouts of America

UC Berkeley Honors to Date