

# Nikhil Sharma

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## Education

### B.S. in Electrical Engineering and Computer Science

GPA: 3.4/4.00, CAL ALUMNI LEADERSHIP AWARD 2017 & 2018

*University of California, Berkeley*

*Aug. 2017 – May 2020*

## Experience

### DevOps Software Engineer Intern

IBM

*Austin, Texas*

*June 2019 – Aug 2019*

Worked on creating components and automating patching for IBM Cloud Security IAM thereby saving hours of manual work. Used UrbanCode, Jenkins, Docker, REST, Python, BigFix, and Fernet symmetric encryption with HMAC to automate deployments and facilitate continuous delivery in agile development. Learned IBMs Design Thinking and Agile Development Methodology and optimized processes.

### Software Engineering Intern

MITRE CORPORATION

*Tampa, Florida*

*May. 2016 - Oct 2018*

**System Vulnerability and Security (Summer 2018):** Developed & tested Inspec profiles for compliance, security, and policy requirements for Apache, Nginx, & Splunk. For development, used Ruby web framework, integration with MongoDB, Kafka, & Ruby gem to map government standards & security benchmarks to NIST 800-53. For testing, used Chef, Ansible, and Kitchen to harden profiles and test for security vulnerabilities.

**Deliverable Workflow Automation (Summer 2017):** Worked for the Deliverable Workflow Automation project to build an internal system to automate and optimize an approval process in a deliverable lifecycle using Azure DevOps, NodeJS, CD/CI tools, SharePoint Workflows, and REST APIs

**Full-Stack Web Developer (Summer 2016):** Worked for a Special Operations Forces (DCGS-SOF) project and was responsible for web app development using .NET, JavaScript, CSS, and performed RESTful services' validation testing using Postman and Fiddler.

### Robotics Intern

KIWIBOT

*UC, Berkeley*

*Jan. 2019 – May 2019*

Troubleshoot and calibrate issues in autonomous computer vision movement, wireless networking, and GPS of robots. Inspect hardware, software, and power supply for smooth functioning of robot fleet to ensure KiwiBots are ready for field usage.

### Data Science Lab Assistant

DIVISION OF DATA SCIENCE BERKELEY

*UC, Berkeley*

*Aug. 2018 – Present*

Assist students in debugging code and applying data science, statistics, and programming concepts to labs & homework in Data 8 & Data 100.

### Mobile Security Research

UNIVERSITY OF SOUTH FLORIDA

*Tampa, Florida*

*Mar. 2016 - Nov 2016*

Enhanced mobile security via an extra layer of sensor-authentication, using data from smartphone sensors and NFC data authentication for secure file sharing algorithm; sponsored by USF Green Building Initiative for monitoring indoor settings by facility managers.

## Leadership

### Computer Science Mentor

UC BERKELEY STUDENT MENTORS

*UC, Berkeley*

*Jan 2018 - Present*

Tutored and conducted weekly review and mini-lecture series for lower division Computer and Electrical Engineering classes.

### Android Developer - AmphibiaWeb

MUSEUM OF VERTEBRATE ZOOLOGY

*UC, Berkeley*

*Feb. 2018 - Present*

An online platform accessed by 30,000+ users a month. Responsible for creating UI/UX design prototypes and worked on the beta release. Used Android Studio, XCode, Swift, and Apache Cordova. Worked with Student Tech Fund at Berkeley to secure development tools and licenses.

### Founder – FLASTEM

K-12 STEM OUTREACH

*St. Petersburg, Florida*

*Jan 2015 – Dec 2018*

Started a STEM outreach for K-12 in Pinellas County, Florida. Conducted 100+ workshops for 2000+ students & 150+ educators and raised over \$20,000 in first three years. Created STEMLink, an android app for the school district; recognized by school district and national non-profits.

## Skills

Java, Python, JavaScript, C, C#, R, Ruby, RobotC, HTML 5/CSS, jQuery, Shell Script  
Android Studio/XCode/123D Design/UI Design  
SharePoint 2010/2013/ .NET/VMWare/Docker/Gitlab/Azure/AWS  
Node.js/Angular.js/Rails/ASP.NET MVC  
MySQL, Google Firebase, MongoDB, Kafka, Hive, Spark, SQLite  
Pandas, Numpy, Tensorflow, Matlab, R, Scikit-learn  
Chef, UrbanCode, Docker, Ansible, Puppet, SaltStack, Kitchen, Fiddler, Postman

*Languages*  
*IDE/Platforms*  
*Collaboration*  
*Frameworks*  
*Databases*  
*ML/Data Science*  
*CI/CD/Test tools*