NIKHIL SHARMA

Berkeley, California │ (727) 543-8197 │ sharmanik99@berkeley.edu

Education

University of California- Berkeley, Berkeley, California
Electrical Engineering and Computer Science, Expected Graduation May 2021
GPA: 3.457

Proficient Languages and Frameworks

Android Studio/XCode/123D Design/Docker/Chef/Ansible/Kitchen	IDE/Platforms
Java/C#/C/R/RobotC/HTML 5/CSS/JavaScript/jQuery/Bash/Arduino/Python/Ruby	Languages
SharePoint 2010/2013/ .NET/VMWare/Gitlab	Frameworks
Node.js/Angular.js/Rails/ASP.NET MVC	Back-end
MySQL, Google Firebase, MongoDB, and SQLite	Databases

Work Experience

MITRE, Tampa, Florida
AGILE Software Development Intern, June 2016 – Present

MITRE System Vulnerability and Security: Developed and tested Inspec profiles for programs and packages such as Apache, Nginx, Splunk, etc. Used Chef, Ansible, and Kitchen to harden the profiles by spinning up VMs and testing for vulnerabilities. In addition, used Ruby-on-Rails framework to create web service and ruby gem to map various government standards and security benchmarks to NIST 800-53 benchmark.
Deliverable Workflow Automation: Built an internal system to automate various processes in a deliverable lifecycle, i.e. approval, comments, review, defer, etc. Used SharePoint 2016 and SharePoint Workflows to automate email alert generation for users involved within the deliverable. Significantly expedited and optimized deliverable approval process cutting days worth of work for various administration levels.
Special Operations Forces (DCGS-SOF): Validated front-end code and back-end processes of web applications developed by various contractors. Responsible for web application development using JavaScript, CSS, and HTML. Specialized in APIs validation testing using Postman and Fiddler to work with HTTP handlers. The project was completed ahead of schedule and saved the government thousands of taxpayer dollars.

Museum of Vertebrate Zoology, Berkeley, California
Lead Android Developer, February 2018 – Present

Android developer for AmphibiaWeb, an online platform with over 30,000+ users per month for information relating to amphibian biology and conservation. AmphibiaWeb is operated and run by The Museum of Vertebrate Zoology at Berkeley. Our team has developed mock-ups and prototypes for the app and are currently working on the beta. The project has been allocated over $1000 worth of funding given by the Student Tech Fund at Berkeley and our team uses the funds to secure appropriate licenses and developer tools.

CSM, Berkeley, California
Computer Science Mentor, December 2017 – Present

CSM (Computer Science Mentors) offers group tutoring at no cost to all students in four highly challenging lower-division technical classes. I hold weekly review sessions lasting anywhere from 90-120 minutes going over the concepts being taught in class. Within my own group, I hold a mini-review lecture at the start of every tutoring session for students to clear any misunderstandings they had.

University of South Florida
University Research, June 2016 – November 2016

Conducted research under the guidance of Prof. Sriram Chellappan, USF. Enhanced mobile security via an extra layer of sensor-authentication, using data from smartphone sensors and NFC data authentication for secure file sharing algorithm. Further use of current research in USF's Green Building Initiative for monitoring indoor settings (temperature/pressure/light levels) by facility managers. Published findings in a capstone paper.

Extracurriculars

FLASTEM, Saint Petersburg, Florida

Founder and President, January 2015 – Present

Founded a non-profit to foster learning of robotics and computer science among K–8 underprivileged students. Organized inaugural HackPCS 2017, a middle school students hackathon in March 2017. Became a community partner and public speaker, recognized by the local school district and the business community. Conducted over 100 workshops and reached over 2000 students and 100 educators during last three years. Recognized by awards from Ford's Next Generation Learning, Mayor Youth Leader, ERCA Community Contributor, and The Pollination Project.

Mobile App for FLASTEM, Saint Petersburg, Florida

Created and supported an Android app that is currently being used by STEM volunteers and educators in Pinellas Schools District. The tool helps as a one-stop planner for easy scheduling and coordination efforts and inform parents about free resources and various developmental activities.

References

References available upon request