Harish Shanker

shanker.harish@gmail.com ◆◆ harishshanker.com ◆◆ github.com/hshank ◆◆ (510) 364 4011

Education

University of California, Berkeley **2012 - 2016**
BS: Electrical Engineering and Computer Science (EECS)
Leadership Award Scholar, Microsoft Student Ambassador, E98 Instructor, HOPE Instructor, IEEE Officer, Project RISHI National Team

Columbia University **2016 - 2017**
MS: Computer Science – Machine Learning

Relevant Coursework

Machine Learning, Artificial Intelligence, Advanced Signals and Systems, Efficient Algorithms, Security, Data Science, Internet Architecture, Databases, Operating Systems, Data Structures, User Interface

Computer Skills

Proficient in Java, Python, C, Numpy, Android Development, Windows App Development, jSoup, Beautiful Soup
Experience in C++, C#, JavaScript, HTML, CSS, Apache Tomcat, Telnet Library

Work Experience

Microsoft: Software Development Engineering Intern (May 2015 – August 2015)
- Created new feature on Windows 10 that pins contacts to Start menu on Desktop, Tablet, and Phone using C#, C++
- Implemented a new Live Tile Template using XML to create animations that include Facebook and Twitter Updates
- Optimized social integration by creating cache to lower number of cloud calls

Juniper Networks: Software Engineering Intern (June 2014 – August 2014)
- Created a remotely executable package from start to finish that tests the sanity of a loaded network stack module
- Wrote scripts in Python that analyze data on the JUNOS software and depending on results runs respective tests
- Built scripts in Python for dTrace Tool that examined the state at which a given kernel was at

Salesforce.com: Extern (January 2014)
- Shadowed lead software engineer and exposed to the Force.com Platform team

Lab Assistant UC Berkeley (September 2013 – May 2014)
- Assisted students with questions on labs in CS61A: Structure and Interpretation of Computer Programs
- Explained and taught concepts in Python, such as Object Oriented Programming, and Recursion

Equinix: Software Engineering Intern (June – August 2013)
- Worked with gamification 3rd party companies for customer facing and internal systems to design a web-app by working with different API's and implementing AJAX calls and jQuery
- Coded in Java to redirect server information from one server to another, using REST Services, Apache HTTP Client, and Apache Tomcat

Projects

Research at UC Berkeley: Machine Learning, Big Data – OskiLab
- Using web-scraping, machine learning, and cloud computing to build and analyze new data sets on a variety of markets including bitcoin, wine, and real estate - Analyzed data in the cloud using Hadoop

Machine Learning Algorithms
- Created algorithms for differentiating ham vs. spam and properly identifying handwritten digits 0 - 9
- Implemented decision trees, SVM, Gaussian Models, Linear Regression, and Neural Nets

Walking DJ
- Used Internet of Things to create a wearable costume that plays music from Soundcloud accounts and adjusts lights
- Presented at Microsoft "OneWeek" Hackathon 2015

Cal Dining Application
- Scraped data from all of Berkeley's dining commons, including food, nutrition facts, and ingredients
- Created Android application that gives live updates on what food is being served at which location
- Allows one to keep track of calories, proteins, etc. someone is consuming

JPEG – PNG Data Extraction
- Created a metadata-extraction tool in C for PNG and JPEG images, by implementing decompression library
- Coded securely, free of memory-safety bugs to find out all hidden information in file

San Francisco Police Dept. - Crime Data Analytics
- Used several machine learning and data science techniques to show common trends between crimes
- Created an application to provide users with the safest way to reach home, to avoid a possible crime

Earthquake Alert
- Android watch and phone app. that immediately alerts you when an earthquake strikes anywhere around the world
- Used Instagram API and Google Maps API to creatively display photos taken by users in the area

Tennis Tracker