Harish Shanker

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Education

BS Electrical Engineering and Computer Science (EECS)
University of California, Berkeley – Senior - Class of 2016

Relevant Coursework

CS 189: Machine Learning	CS 188: Artificial Intelligence	CS 61C: Machine Structures
EE 120: Advanced Signals and Systems	CS 61B: Data Structures	CS 160: User Interface
CS 170: Efficient Algorithms	CS 161: Security	CS 194: Data Science
CS 168: Internet Architecture		

Computer Skills

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

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 (August 2014 – Present)

- 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
- Analyzing data in the cloud using Hadoop

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

Machine Learning Algorithms

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

Leadership Skills

Project RISHI (January 2014 – Present): Currently Project Leader of Education Project (Bringing technology to schools in villages in 3rd world countries)
Institute of Electrical and Electronics Engineers (IEEE) Website Officer (January 2014 – Present): Maintain Cal's Award Winning IEEE Website which runs on Ruby on Rails (Projects include Responsive Website, Yearbook)
Leadership Award Scholar (2012 – 2013): Part of Exclusive scholarship program at Berkeley that organizes community service projects and provides leadership development opportunities