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VARUN PARTHASARATHY

EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN | August 2015 – May 2019 (expected)

B.S. Statistics & Computer Science

Relevant Coursework: Data Structures, Discrete Structures, Systems Programming, Computer Architecture, Applied Linear Algebra, Statistics & Probability I, Statistical Analysis, User Interface Design, Data Mining, Numerical Methods, Fundamental Mathematics, Statistics & Probability II (Currently Enrolled), Intro to Algorithms & Models of Computation (Currently Enrolled)

EXPERIENCE

Software Engineer Intern | HPE ARUBA NETWORKS | June 2017 – August 2017
- Worked on team developing 'Introspect' next-generation User and Entity Behavior Analytics solution.
- Developed continuous integration testing framework to ensure functionality of ETL data processing components, improving testing times from over an hour to less than 5 minutes.
- Worked with Hadoop HDFS, Apache Spark, and other big data frameworks and technologies.
- Contributed various improvements to log parsing engine and backend APIs.

Developer Intern | CHATGRID | June 2016 – August 2016
- Designed and implemented instant messaging customer survey service.
- Worked with team members to design service and database structure from specifications.
- Utilized Node.js to create event-driven fluid conversation module.

Summer Intern | MOBILEIRON | July 2014 – August 2014
- Developed secure enterprise messaging android app prototype.
- Worked with UI and back-end teams to create fully-featured functional prototype from specifications.

SKILLS

Java, C/C++, Python, C#, JavaScript/TypeScript, jQuery, HTML, CSS/SCSS, MIPS Assembly, Git, Subversion, Android, Linux, Windows, Node.js, Android Studio, IntelliJ IDEA, Eclipse, Visual Studio, Vim

PROJECTS

RANDOM FOREST (2017):

Python random forest and decision tree classifiers for categorical or discretized numeric attributes. Features variable forest and tree size and attribute sampling.

PAGERANK CRAWLER (2017):

Python program that crawls webpages, and then ranks them by importance using the PageRank algorithm. Includes HTML crawling/parsing, page mapping, and ranking functionality.

LOCKPAD (2016):

Fully-featured encrypted notepad Android application. Features include full AES 256-bit encryption, support for directories, text, and images, auto-saving, an intuitive material design user interface, and password recovery.

Full portfolio available at www.varunp.com

LEADERSHIP

COURSE ASSISTANT | CS 125 (INTRODUCTION TO COMPUTER SCIENCE) | SPRING 2016 SEMESTER

Aided in instruction of basic computer science concepts through both in-class instruction and office hours

THIRD PLACE | FALL 2016 CS 233 SPIMBOT COMPETITION | DECEMBER 2016
- Placed 3rd out of 106 teams in competition to write robot movement and gameplay logic for a simulated game.
- Worked with two other team members to design and implement robot gameplay algorithm.
- Implemented program in 32-bit MIPS assembly.