Ananya Suraj
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Education

University of Massachusetts Amherst — Amherst, MA
Master of Science in Computer Science | GPA: 3.92 — *Sept 2016 - May 2018 (Expected)*
Coursework: Distributed and Operating Systems, Database Design and Implementation, Systems for Data Science, Information Retrieval, Deep Learning, Advanced Algorithms, Machine Learning

Nitte Meenakshi Institute of Technology — Bangalore, India
Bachelor of Engineering in Computer Science | GPA: 9.21/10 (Ranked 6th out of 256 students) — *Aug 2012 - May 2016*
Coursework: Operating Systems; Databases; Algorithms; Computer Networks; Compiler Design

Experience

Goldman Sachs Services Pvt. Ltd. — Jersey City, NJ
Technology Analyst Intern - Enterprise Platforms — *May 2017 - Aug 2017*

Automated Hadoop Cluster Provisioning: Developed the user interface in ReactJS, CSS, and HTML for a web service that automates provisioning Hadoop resources across the firm. Worked on functional specifications and validations with APIs using a Python Django REST Framework to create and modify orders for resources like Hadoop Directory File Systems, HBase Databases and Yarn Compute Clusters. Improved the time taken for provisioning resources from 2 weeks to a few seconds thereby improving the user experience and reducing operational overheads.

Indian Institute of Science — Bangalore, India
Project Intern — *May 2015 - May 2016*

Smart Jewelry for Personal Safety: Analyst and developer for a bracelet designed for the safety of women that performs emergency detection and authority notification. Collected and analyzed data to design a motion tracking algorithm to differentiate forceful push, drag or jerk movements from regular ones.

Projects

Live Stream VR videos through Edge Servers - Advised by Prof. Prashant Shenoy (ongoing): Build and set up a system to live stream Virtual Reality videos to explore the applications of Edge Computing.

Distributed Home Automation System: Simulated a distributed network of virtual devices to develop a smart home system. Using RPCs for communication, the devices worked seamlessly with clock synchronization, fault tolerance, event ordering, consistency and consensus protocols.

Identifying Relatedness in Web Tables to Perform Cell Search: Designed and developed a novel approach to perform cell search in a large corpus of web tables by identifying those that can be unioned or joined. Improved search response time and accuracy by using an iterative framework that finds results for a user's natural language query.

Career Path Analysis with Topic Models - Advised by Prof Andrew McCallum: Worked on a workforce analytics problem to predict the career trajectories of individuals. Built a probabilistic generative model using Latent Dirichlet Allocation and Hidden Markov Models to predict the next logical stage in an individual's career based on his resume.

Technical Skills

Programming Languages: Java , Python , C++ , C
Web Technologies: ReactJS , JavaScript , CSS , HTML5 , Bootstrap
Databases & Frameworks: Hadoop , PostgreSQL , MySQL , SQLite
Certificate of Proficiency in Java from Oracle's Workforce Development Program

Achievements & Activities

Grace Hopper Celebration 2017 Scholar - awarded by The Anita Borg Institute.
Social Chair - CSWomen - an organization to promote the representation and interest of women in CS.
Raised funds for Chittadhama, a rehabilitation center for homeless people with mental illness.