Anjali Devi Mittu

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Education

University of Maryland — College Park, MD
Master of Science in Computer Science — Graduation May 2021

- GPA: 3.96/4.00
- Research projects: "Using a Secure Environment to Enable Community-level Suicidality Research for the CLPsych 2021 Shared Task", "Natural Language to Python Code Generation", "Evaluating Metadata-Driven Approaches to Topic Modeling"

Bachelor of Science in Computer Science — Graduation May 2017
Bachelor of Science in Astronomy — Graduation May 2017

- Teaching Assistant for Astronomy 101 — January 2015 to May 2016

Certifications

- Machine Learning — Stanford University
- Structuring Machine Learning Projects, Neural Networks and Deep Learning, and Improving Deep Neural Networks — deeplearning.ai
- AWS Certified Solutions Architect – Associate — Amazon Web Services

Professional Experience

Amazon — Crystal City, VA
Software Engineer — May 2021 to Present

Capital One — McLean, VA
Software Engineer — September 2017 to May 2020

- Designed the end-to-end process for users to add their own custom schema for logging events to an internal structured logging service using object-oriented design. Contributed to Python and Java APIs for the service.
- Developed back-end API to auto-generate custom Scala Spark executable ETL jobs based on inputted configuration json
- Developed a service to transpile Ab Initio projects into PySpark code
- Built data processing (ETL) applications using AWS and Apache Spark to move large amounts data to AWS.
- Mentored new hires in software development, and mentored students at Capital One funded hackathons
- Recruited and interviewed interns and new grads at college events, and hackathons.

Technical skills: Python, Java, REST API Scala, Apache Spark, Bash, Jenkins, AWS, Git

Amazon — Seattle, WA (Remote)
Software Engineering Intern — May 2020 to August 2020

- Designed and presented a system for automatically capturing user metrics from internal websites
- Implemented front-end library to automatically capture user metrics and a back-end API in AWS to process the metrics and store them.

Technical skills: Java, REST API, Typescript, React, AWS, AWS Lambdas, Git

NASA Goddard Space Flight Center — Greenbelt, MD
Software Development Intern — September 2015 to May 2016; September 2016 to September 2017

- Developed back-end of "NEN Now" project at NASA Goddard using Agile Scrum process
- Incorporates reading and parsing data in real time from a database and web socket, and publishing results on a message bus

Technical skills: Java, MySQL, JavaScript, Jenkins, Git, Bash, PowerPoint

Gravitational Astrophysics Research Intern — May 2016 to September 2017

- Modeled the detection efficiency for the Swift Burst Alert Telescope using the Random Forest Algorithm
- Conducted a Bayesian study of the gamma ray bursts rate distribution to obtain estimates of the star formation rate
- Used analytical and quantitative skills to work on large quantities of data and convert it into understandable statistical results

Technical skills: Python, C, C++, Makefile, Bash, Git

Electromechanical Systems Branch Intern — Summers 2014, 2015

- Researched Magnetic Shape Memory Alloy and designed test structure and procedures for the MSMA actuator