

Anjali Devi Mittu

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Education and Training

University of Maryland

Dual Bachelor of Science in Computer Science and Astronomy

College Park, MD

Expected Graduation May 2017

- GPA: 3.48/4.00
- Recipient of Maryland Space Grant Scholarship Award September 2016
- Completed the College Park Scholars' Science, Discovery, and the Universe program May 2015
 - ❖ An invitation only living and learning honors program focused on research, giving to the community, and teamwork
 - ❖ President of Alumni Board after completion

Certifications

- Improving Deep Neural Networks - deeplearning.ai May 2018
- AWS Certified Solutions Architect – Associate May 2018
- Neural Networks and Deep Learning - deeplearning.ai January 2018
- Machine Learning - Stanford University December 2017
- Structuring Machine Learning Projects - deeplearning.ai December 2017

Professional Experience

Capital One

McLean, VA

Associate Software Engineer

September 2017 to Present

- Converted data between formats including AVRO to JSON and mainframe data file (EBCDIC encoding) to ASCII using Cobol Copybooks
- Lead developer on project to land data in AWS. This included creating python scripts, unit and ATDD tests, and a CICD pipeline using Jenkins and internal tools
- Performed data quality checks using internal data management tools

Technical skills: Python, Bash, Java, Jenkins, AWS, Git, Bash, Makefile

NASA Goddard

Greenbelt, MD

Software Development Intern

September 2015 to May 2016; September 2016 to September 2017

- Sub-contractor from Columbus Technologies and Services (9/15 to 2/16) and ASRC Federal Technical Services (9/16 to 9/17)
- Developed and managed 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
- Wrote and presented systems engineering content for the Systems Requirement Review (SRR)

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

Gravitational Astrophysics Laboratory Intern

May 2016 to Present

- Create model of the detection efficiency for the Swift Burst Alert Telescope using Random Forest Algorithm
- Conduct a Bayesian study of the GRB rate distribution using a double-broken-power-law model which closely follows current estimates of the SFR
- Use analytical and quantitative skills to work on large quantities of data and convert it into understandable statistical results

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

Electromechanical Systems Branch Intern

June 2014 to August 2014; June 2015 to August 2015

- Researched Magnetic Shape Memory Alloy and designed test structure and procedures for the MSMA actuator
- Visited Capitol Hill with Goddard Director, Chris Scolese, to presented scientific results and communicate the need for science research to Congresswoman Donna Edwards and Congressman Chris Van Hollen
- Reconstructed an existing magnetic bearing system (mechanism, electronics, and controller software) and designed the control system in Matlab Simulink and dSpace ControlDesk

Technical skills: Matlab, Autodesk Inventor, dSpace ControlDesk

University of Maryland

College Park, MD

Teaching Assistant for Astronomy 101

January 2015 to May 2016

- Ran the weekly lab, graded homework and exams, held weekly office hours, constructed lesson plans and assisted the professor.