Anjali Devi Mittu

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Education

University of Maryland College Park, MD
Dual Bachelor of Science in Computer Science and Astronomy 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
- Completed advance college level math courses (multivariable calculus and differential equations) as a high school senior

Technical skills

C++, C, R, Python, Java, OCaml, Ruby, MySQL, Bash, Makefile, Matlab, Matlab Simulink, dSpace ControlDesk, Autodesk Inventor, Word, Excel, Powerpoint, Garageband and Ableton Live

Hackathons

- Attended 8+ hackathons; Developed apps for Android, Pebble and the Web
- Won the Booz Allen Hamilton Most Game Changing Hack at HackUMBC October 2016
- Placed in the top 30 at PennApps September 2016

Professional Experience

NASA Goddard Greenbelt, MD
Software Development Intern September 2015 to May 2016; September 2016 to Present

- Sub-contractor to NASA from Columbus Technologies and Services (9/15 to 2/16) and ASRC Federal Technical Services (current)
- 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)

Languages: Java, MySQL, JavaScript

NASA Goddard Greenbelt, MD
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

Languages: C, Python

Astronomy 101, UMD College Park, MD
Teaching Assistant January 2015 to May 2016

- Ran the weekly lab; graded homework and exams; held weekly office hours; and assisted the professor.
- Met weekly with professor and other teaching assistants to construct lesson plans

NASA Goddard Greenbelt, MD
Electromechanical Systems Branch Intern 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 summer research on MSMA to Congresswoman Donna Edwards and Congressman Chris Van Hollen

NASA Goddard Greenbelt, MD
Electromechanical Systems Branch Intern June 2014 to August 2014

- Reconstructed an existing magnetic bearing system (mechanism, electronics, and controller software)
- Designed the control system in Matlab Simulink and dSpace ControlDesk