Rishub Jain

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EDUCATION

CARNEGIE MELLON UNIVERSITY
BS in Computer Science
Minor in Machine Learning
Expected May 2018 | GPA: 4.0/4.0

THOMAS JEFFERSON HIGH SCHOOL FOR SCIENCE TECHNOLOGY (TJHSST)
Grad. June 2015 | GPA: 4.4/4.0

COURSEWORK

UNDERGRADUATE

- Great Theoretical Ideas in CS [15-251]
- Functional Programming [15-150]
- Concepts of Mathematics [21-127]
- Imperative Computation [15-122]
- Matrix Algebra [21-241]
- Probability Theory [36-217]

In progress:

- Machine Learning [10-601]
- Practical Data Science [15-388]
- Introduction to Computer Systems [15-213]
- Parallel and Sequential Data Structures and Algorithms [15-210]

HIGH SCHOOL

- Artificial Intelligence
- Parallel Computing
- Multivariable Calculus
- Complex Analysis
- Differential Equations
- Advanced Mathematics Techniques
- Digital Electronics
- Robotics
- Microprocessor Systems

SKILLS

Java • Python • C/C++ • Javascript • SML bash • Matlab• HTML/CSS• SQL

- Extensive Data Science and Computer Vision background
- Proficient with Git and SVN

EXPERIENCE

DISNEY RESEARCH | Research Assistant
Spring & Fall 2016 | Pittsburgh, PA

- Worked on detecting engagement levels of kids in real-time using visual and audio features
- Extracted features and developed regression and classification models
- Helped design conversational robot

BLOOMBERG LP | Software Engineering Intern
Summer 2016 | New York, NY

- Designed and implemented entire platform for developers to remotely change users' settings and controls for debugging purposes
- Developed a way to change log verbosity levels in real-time

NATIONAL INSTITUTES OF HEALTH | Comp. Biology Intern
Summer 2015 | Bethesda, MD

- Generated atomic resolution reconstructions of proteins using cryo-EM
- Worked on image processing algorithms for detecting aggregate particles, and performance optimizations

U.S. ARMY RESEARCH LABORATORY | Software Eng. Intern
Summer 2014 | Aberdeen Proving Ground, MD

- Developed a two-way converter between 3D geometry formats
- Research report was published in the DTIC

NASA | Software Engineering Intern
Summer 2013 | Goddard Space Flight Center, MD

- Transformed the raw satellite images into usable and accurate formats
- Wrote a research paper on Super Resolution, published on the website

PROJECTS

2016	OCalc (Organic Compound Identifier)	AT&T Hackathon
2016	CMU Meets (Scheduler and Meeting Website)	TartanHacks
2016	PoolMaster (Real time pool game helper)	Build18
2015	MapIO (Group Meeting Website)	HackCMU
2014-15	Luggage Recognition using Image Processing	Senior Research Project

AWARDS

2016 1st Place in AT&T Mobile App Hackathon (OCalc)
2014 Eagle Scout Award
2013 1st Place in Intern Presentation Contest at NASA Goddard

ACTIVITIES/LEADERSHIP

2003-15	Leadership Positions, Eagle Scout	Boy Scouts
2011-15	Captain (2013-14)	Computer Team
2012-15	ARML Highest Team Scorer (2014)	Varsity Math Team

COMMUNITY SERVICE

I am passionate about giving back to the community, and have volunteered through Boy Scouts and various CMU organizations.