

Daniel Crankshaw

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EDUCATION

Johns Hopkins University (JHU), Baltimore, MD *(Expected May 2013)*

Bachelors of Science Engineering in Computer Science and Physics

GPA: 3.85

Relevant Coursework: Database Systems, Parallel Programming (Hadoop, MPI, CUDA), Object Oriented Software

Engineering (Semester long group project in Java), Computer Networks, Data Structures, Computer System

Fundamentals (Computer Architecture), Discrete Math, Linear Algebra, Differential Equations, Multivariable Calculus, Probability and Statistics

Menlo School, Atherton, CA *(May 2009)*

WORK EXPERIENCE

Software Engineering Intern, Google *(Summer 2012)*

- Worked on an internal continuous data processing engine used by many other Google teams
- Developed an API to add new functionality to the engine, along with unit tests and integration tests to ensure correctness and usability (C++)
- Used the API to refactor an internally developed tool in use by several teams

Computer Science Research, JHU *(January 2011 – present)*

- Working with large-scale N-body dark matter simulation data as part of a collaborative project between the Physics and Computer Science departments
- Optimizing data storage for a 100 TB database by creating and analyzing efficiency tests on possible storage configurations
- Developing a set of tools for physicists to allow them to efficiently query and analyze the data (C# and Python)
- Built an application that streamlines, automates, and parallelizes the process of loading the results of the simulation into a SQL Server database (C#)
- Presented a poster on research findings at Winter 2012 meeting of the American Astronomical Society

Physics and Calculus Peer Tutor, Whiting School of Engineering, JHU

(September 2010 – May 2011)

- Lead group problem solving sessions for 8-10 engineering students

Web Marketing, Billiards.com, Mountain View, CA *(Summer 2009)*

- Wrote copy for an e-commerce website
- Conducted market research for a subsidiary company that trades generic domain names

SKILLS

Computer Languages and Proficiencies: C, Java, C#, Python, C++, Microsoft SQL Server, Git

AWARDS

Joseph C. Pistrutto Research Fellowship, JHU *(Summer 2011)*

- Undergraduate Computer Science research award to foster excellence in undergraduate research
- Awarded based on student research proposal and faculty recommendations

Dean's List for high GPA, JHU *(Spring 2010 – present)*

ACTIVITIES

Outdoor Pursuits Pre-Orientation Rock Climbing Instructor, JHU, Maryland, West Virginia

(December 2010 – May 2012)

- Lead 8 incoming freshmen on a week long climbing and camping trip the last week of summer
- Training includes NOLS Wilderness First Responder (80 hours) and Hopkins Outdoor Leadership Training, a 10 day backpacking and leadership skills course

4K for Cancer Rider, Baltimore, MD to San Francisco, CA *(December, 2009 – July, 2010)*

- Raised \$4,500 and biked 4000 miles across America (Summer 2010) to spread awareness about cancer, foster hope among cancer patients, raise funds for cancer research and patient care
- Donated funds to the American Cancer Society and the Sidney Kimmel Comprehensive Cancer Center

Scholarship Chair of Beta Theta Pi Fraternity *(May – December, 2010)*

- Organized an academic scholarship given out to Hopkins freshmen along with an awards banquet for the recipients