Nathan E.F. Shields

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Objective

I am seeking a summer intern position in order to gain a better understanding of the many applications of computer science, and to see how what I have learned in my college education relates to industry and research in the field.

Education

College of Engineering, University of Michigan - Ann Arbor, Michigan   September 2011 - Present
Major – Computer Science and Engineering   GPA – 3.88
Minor– International (German focus)   Expected Undergraduate Graduation – April 2015

Relevant Coursework

Programming and Introductory Data Structures, Data Structures and Algorithms, Discrete Mathematics, Introduction to Computer Organization

Work Experience

Resource Recycling Systems - Ann Arbor, Michigan
Intern – Technical Team, April 2012-Present

- Created a script using tools in ArcGIS and Python which was used in contract work for Ontario Waste Diversion, and saved over 30 hours of work.
- Worked as part of a team that often had members in different states or overseas.
- Found over two million households with access to carton recycling to help complete a contract roughly two months ahead of schedule.
- Analyzed utility and weather data from Laundromats across the country in order to find ways to make them greener and more energy efficient.

Undergraduate Research Opportunity Program - Ann Arbor, Michigan
Student Researcher, September 2011 – April 2012

- Studied behavioral game theory applied to online auctions
- Worked with a team of students and a professor to find methods for risk analysis

Computer Skills

- Applications: Microsoft Word, Microsoft PowerPoint, Microsoft Excel and ArcGIS
- Languages: C++, basic MATLAB and Python
- Operating Systems: Windows 7/Vista, Mac, Linux

Memberships

- Music Matters: Producer – Raised money to host a charity concert at the University of Michigan
- MSuite – App development group at the University of Michigan
- Computer Science Engineering Scholars

Awards

- University of Michigan, College of Engineering Dean's List: Fall 2011-Fall 2012
- Mhacks: Impact Hackathon
  - Best hack, most technical Hack – Chargii, a power strip that can be controlled via smartphone applications and a "keychain" device