

Preetom Chakraborty

Web/Portfolio: <http://umich.edu/~preetom>

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Education

University of Michigan, Ann Arbor

Bachelor of Science, Computer Science

Expected graduation: May 2017

Honors: University Honors

Master of Science, Computer Science

Expected graduation: May 2018

- Admitted to SUGS, a program that allows you to complete an M.S. in one year after completing your Bachelor's.

Experience

Soar Technology Inc.

Ann Arbor, MI

Software Engineering Intern

May 2016-present

- Independently created a web catalog for different virtual machine configurations to support evaluation and development of cybersecurity projects, using Django to create the backend and Backbone.js for the front end
- Introduction of catalog helped reduce time required to set up development and testing environments by 75%
- Contributed features and improvements to Soar IDE, the development environment used for the Soar language

University of Michigan- Department of Industrial and Operations Engineering

Ann Arbor, MI

Programmer

July 2015-September 2015

- Independently developed a control program and user interface for servomotors using the LabVIEW and SmartMotor software environments to integrate with microcontrollers
- Program is currently being used to administer experiments and collect data in Dr. Bernard Martin's laboratory for use in a PhD candidate's thesis concerning ergonomics research
- Created and utilized test suite to ensure software preparation for experimental data collection

University of Michigan Men's Water Polo Team

Webmaster

July 2015-present

- Created team website using HTML, CSS, and Foundation 5 to increase fundraising, scheduling, and merchandising opportunities, culminating in expanded online outreach and presence
- Maintained and established website content to strengthen both parent and alumni connections
- Current version of the website is available at <http://www.umich.edu/~umpolo>

Projects

Movie Review Aggregator

December 2015-June 2016

Independent

- Individually wrote a Python/JavaScript program that made use of various API's to collect movie review ratings from sites around the Web and present them in an easy to read, graphical format using the ZingChart library
- Final version of program was a JavaScript web app that allowed user to enter a list of movies and determine which ones were the most critically acclaimed across different critic review sites and the general public

Rendezvous.me-MHacks VI Hackathon

September 2015

Team member

- Worked with four of my peers to create a website that determines the most cost-effective flight combination for a group of people looking to meet up in any city in the world
- Worked on both the front end and back end, utilizing HTML, CSS and JavaScript to analyze the coordinates, compute the total cost and savings, and display the results in both a list and map format

Skills

- Languages: C++, Python, JavaScript, HTML/CSS, Java, MySQL
- Technologies/Platforms: Git, Flask, Django, jQuery, Backbone.js, Ansible, Vagrant, LabVIEW, LaTeX, Linux
- Native speaker of English and Bengali, basic knowledge of Spanish

Additional Activities

- Eta Kappa Nu Honor Society January 2016-present
- Michigan Men's Club Water Polo September 2013-present