TanmayChordia

M&T Undergraduate Student at Penn

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My Website
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Skills
Java
Python
Matlab
Android
Web Dev
Hadoop
Machine Learning

Personal Skills
Leadership
Curiosity
Initiative
Teamwork

Summary

Student at M&T planning to dive into high tech entrepreneurship in Silicon Valley.

Work Experience

06/14 - 08/14 **Software Intern**   Peta-Secure
Worked to develop anomaly reports of terabytes of security data to help detect breaches in website security through machine learning. Gained experience with handling Hadoop clusters through SSH.

06/14 - 07/14 **Medical Research Intern**   University of Virginia
Worked to model the influx of glucose through the mouse bloodstream and brain via in vivo FDG-PET scans and algorithmic numerical analysis of FDG radioactive time activity curves in MATLAB.

Projects

2015 **Brain Computer Interface**   Kaggle.com
Ongoing attempt to extract hand gesture information from large EEG time series through the use of a Common Spatial Filter, discrete wavelet transform, and LDA classification in Python with the Scikit-learn and MNE libraries.

2015 **Cross Device Connections**   Kaggle.com
Ongoing attempt to identify users across accounts and devices. Currently implementing SGD classification.

2014 **Water Bottle Rocket Simulator**   House App Contest
Led the development of a water bottle rocket simulator in java. The simulator used extensive calculus, fluid dynamics, and rocket science to calculate the trajectory of a customizable water rocket.

2014 **SmartBrace**   Product Idea
Designed a Smart Wrist Brace to monitor an individual's wrist condition and report data to a server, where an algorithm generated statistics and graphs, as well as health tips for the user. This data could potentially be very useful to doctors and medical researchers.

2012 - 2015 **Wooden Boat Project**   Sea Scouts
Built a 26 foot long, Inboard Mahogany Powerboat from scratch in my friend's garage, over a period of 4 years. Gained extensive woodworking experience

Education

2015 - 2019	**Bachelor's Degree in Computer Science** *Ongoing*	University of Pennsylvania
2015 - 2019	**Bachelor's Degree in Economics** *Ongoing*	University of Pennsylvania
2012 - 2015	**Diploma**	Lynbrook High School

Certifications

2014-2015	**AP Tests**	College Board

Full Score of 5 received:
Mathematics: Calculus BC, Statistics
Sciences: Physics C: E&M, Physics C: Mechanics, Biology, Chemistry, Environmental Science, Psychology, Computer Science
Economics: Macroeconomics, Microeconomics
Writing: English Language and Composition

2015	**Machine Learning**	Coursera

Neural Networks, Support Vector Machines, Nearest K Algorithms, Hidden Markov Models

Awards

2014	**National AP Scholar**	College Board

Won for taking 9 AP tests in 1 year and receiving 5s on all of them

2015	**National Merit Scholarship Finalist**	College Board
2014	**Congressional Recognition**	Congress

Won for the technical complexity of our Rocket Simulator

Extracurriculars

2012-2015	**Sea Scouts**	Boy Scouts of America

VP of our Scout unit, leading a group of teens in maintaining and cruising a Coast Guard Cutter across the San Francisco bay. Other activities include competing at fixing nautical engines and navigating.

2012-2015	**Captain of Sailing Team**	Peninsula Youth Sailing Foundation

Captain of Lynbrook High School Sailing team

August 3rd, 2015

Tanmay Chordia