Brahm Capoor

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EDUCATION

Stanford University, Class of 2019

Overall GPA: 3.86

Major: Symbolic Systems with a concentration in Artificial Intelligence

Minor: Mathematics

Relevant courses & work:

- MATH 51: Linear Algebra & Multivariable Calculus
- PSYCH 50: Introduction to Cognitive Neuroscience
- CS 106A: Programming Methodologies (Java)
- CS 106B: Programming Abstractions (C++
- CS 107: Computer Organization and Systems
- CS 103: Mathematical Foundations of Computer Science
- CS 124: From Languages to Information (Natural Language Processing) (Will be enrolled next quarter)
- CS 142: Web Applications (Will be auditing)
- CS 109 : Intro to Probability for Computer Scientists (Will be enrolled next quarter)
- CS51 : CS + Social Good Studio (Will be enrolled next quarter)
- MATH 161: Set Theory (Will be enrolled next quarter)

United World College of South East Asia, Class of 2015

Graduated with 42/45 points in the International Baccalaureate with 7/7 in an additional Further Mathematics course and A*s in all 10 of the IGCSEs I took

SKILLS

LANGUAGES: Python, Ruby, HTML/CSS, Javascript/Livescript, Java (Some experience), C++ (Some experience), C, x86 Assembly

TOOLS: Command Line, Git, Scientific Python, Requests, BeautifulSoup

FRAMEWORKS: Ruby on Rails, Sinatra, JQuery, Bootstrap, Materialize

OTHER: Public Speaking, Leadership, Creative & Expository Writing, Teaching

COURSES

Introduction to Machine Learning

HONOURS

- High school awards for Physics, Mathematics, Literature, Overall effort and achievement in academics and public speaking
- Nominated for the Boothe Prize for excellence in academic writing in freshmen year for a linguistics paper I wrote about buzzwords

OBJECTIVE

Seeking a full-time technical internship for the summer of 2017 as well as any part-time opportunities during the 2016-2017 academic year

EXPERIENCE

CS106 Section Leader — **Stanford University**

Starting Jan 2017

Will be a TA (Teaching Assitant) for Stanford's introductory Computer Science 2-course sequence. Will teach a section of 10-12 students, grade homework and exams, hold office hours and interactive grading sessions for students. Courses are in Java and C++.

Human-Computer Interaction Group — **Stanford University**

Research Intern — 2016

Worked on the HabitLab Google Chrome Extension (**https://github.com/habitlab/habitlab-chrome**), which intelligently offers interventions to increase one's productivity on the web.

Center for Cognitive Neuroscience, Duke-NUS Medical School — **Singapore**

Research Summer Intern — 2016

Assisted with two psychophysics experiments in the Brain & Consciousness Lab. Designed, implemented and tested both experiments (using python and the psychopy package), and ran one of the experiments on test subjects, followed by subsequent data analysis. Both experiments are on my github. Papers will be published late 2016.

European Center for Nuclear Research (CERN) — **Geneva, Switzerland**

High School Summer Intern — 2014

Part of a team of summer students & engineers helping to build and test resistive plate chambers (RPCs), a type of particle detector in the Compact Muon Solenoid (CMS) experiment, a part of the Large Hadron Collider (LHC).

PERSONAL PROJECTS

xkcd-explainer(https://github.com/brahmcapoor/xkcd-explainer) (html/css/javascript)

A website that pulls comics and metadata from the API of the popular webcomic xkcd and displays it.

Mercury (https://github.com/brahmcapoor/Mercury) (python)

A twitter bot that chooses a random emotion every day and generates tweets based on that mood using Markov Chaining on a corpus of around 2000 quotes per emotion. Project built for CS 41 entry from scratch as the independent final project

CS-106BR (https://github.com/brahmcapoor/CS-106BR) (html/css/javascript)

The website for a computer science course my friends taught in Brazil in the summer of 2016. Built using bootstrap.

Cellular-automata (https://github.com/brahmcapoor/cellular-automata) (python)

A cellular automata simulator written using the matplotlib and numpy packages. Accepts any of the automaton rules from Wolfram's Atlas.

Heap Allocator (C)

Dynamic memory allocator written in C. Utilises doubly-linked segregated free list with coalescing. Outperformed benchmark for throughput by 15% and utilisation by 5%.

ACTIVITIES

Debating — **2008 - Present**

Stanford Debate Society — 2015 - Present

High School debate team member & captain — 2011 - 2015

Achievements include finalist in Ministry of Education in debate championships, top 20 speaker of Nanyang Technological University Dorothy Cheung Debate Championships, Quarterfinalist in Singapore Secondary Schools Debate Championships and several others

High School Math Competition Team — **2008 - 2015**

Participant in Singaporean Mathematical Olympiad, certificate of distinction in International Mathematical Olympiad, Gold Certificate in invite-only Maclaurin Math Competition 3 years in a row, Winner of Singapore international schools math competition (team & individual), World Topper in UKMT math competition and winner of NAT Fall Startup 3 years in a row.

Writing & Journalism

The Stanford Flipside (Satirical Magazine) — 2015 - 2016

High school newspaper journalist & chief editor — 2013 - 2015

High school science magazine journalist & chief editor — 2013 - 2015

Blog (www.abzonnianramblings.com) — 2011 - 2015