SANCHIT BATRA

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EDUCATION

University at Buffalo, The State University of New York Anticipated May 2020 GPA: 4.0/4.0

Bachelor of Science, Computer Science | Minor, Music Performance

WORK EXPERIENCE

University at Buffalo, Department of Mechanical Engineering

May '18 - Aug '18 Research Assistant, Motion Simulation Laboratory

Building a virtual model of UB's North Campus using Unity to conduct research on autonomous vehicles

University at Buffalo, Department of Computer Science

Teaching Assistant, CSE250 Aug '18 - Present

Led recitations and conducted office hours for a course on data structures

Teaching Assistant, CSE199 Aug '17 - Dec '17

Assisted in recitations and mentored students in a seminar on the internet

University at Buffalo, Math Place

Tutor Sep '17 - Present

Worked one on one with students to assist them in understanding critical mathematical concepts

PROJECTS

Web Development

Aided in the development of UBHacking's official website by implementing Bootstrap, HTML, CSS, Python, Flask a UI for managing FAQs and designing the authentication pages

Developed an unofficial lost and found website for my college

Bootstrap, HTML, CSS, PHP, JavaScript

Constructed a website for Roseate Engineering Services

Bootstrap, HTML, CSS, PHP

Created a personal website as a project for my seminar

Bootstrap, HTML, CSS

Wrote a script to bypass the (annoying) login procedure for obtaining access to UB's course management website

Python, Selenium

Software Development

Led the development of a fractal visualization software in a team of three

lava C++

Coded a relatively elementary HTML validator

Built a tile-matching game similar to Candy Crush by applying principles of good software design,

the observer pattern, model-view separation and code readability

Java

Developed an interpreter for a simple functional language

Pvthon, SML

Created an arithmetic calculator and a Euclidean Distance calculator

MIPS Assembly

ACTIVITIES

Recipient of the 2018 Grace W. Capen Award

- Ranked amongst the top 250 scholars at the WSC Tournament of Champions hosted by Yale University, won two bronze medals at the global round, stood 4th among 400 scholars in the Scholar's Challenge
- Awarded "Best Explanation of a Complex Concept" for explaining the functioning of gyroscopes
- Top student contributor for the CSE116, CSE250, CSE341, CSE305 and CSE331 Piazza pages
- Ranked in the top 4 bands at Buffalo Untapped, stood 1st in Cord 'n' Blend and 2nd in Wired'14
- Appointed the D-USG of Hospitality of H-MUN for 2 years, handled the catering with a team of 8 people
- Acquired national and international ranks in Science, Math, English, Cyber, Finance and SAT Olympiads
- Performed in numerous plays centered on social reform

CAMPUS INVOLVEMENT

Aug '17 - May '18 **Design Club**, *Treasurer*

Association of Computing Machinery, Member Aug '16 - Present

Jam Club, Member Sep '16 - May '18

SKILLS