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TANMAY BAGARIA

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EMPLOYMENT

Undergraduate Peer Mentor **UW-Madison** **Jan 2019 – Present**

- Courses: Introduction to Artificial Intelligence (x2), Computer Organization and Programming
- Held office hours, review sessions and developed practice problems to help students in their coursework.

Undergraduate Researcher **UW-Biochemistry Department** **Jan 2019 – May 2019**

- Attempted to create clustering algorithms for the interaction of high dimensional proteins using C++ and the MSL Library.
- Researched and consolidated information relating to the homodimer universe.

Network Application Staff **Division of IT, UW-Madison** **Sep 2018 – Dec 2018**

- Worked on the knowledge base using HTML to store university information
- Coordinated with different departments to arrange meetings and installation requests for campus VoIP phone systems.

Marketing, Intern **Zomato** **May 2018 – Jun 2018**

- Led the marketing team to visit over 20 commercial enterprises to pitch and expand the client base in the corporate sector.
- Researched on corporate and college target audience and maintained excel sheets of daily performance growth using periscope data.

Finance and Software, Intern **SREI Infrastructure Finance Ltd** **May 2017 – Jun 2017**

- Developed regression analysis composites, binomial model, Black-Scholes model for premium option pricing using Java and Microsoft Excel.
- Researched and analyzed on computational finance and its benefit for the company on a national scale.

EDUCATION

Madison, WI **University of Wisconsin-Madison** **May 2020**

- B.S. in Computer Science with Minor in Entrepreneurship, May 2020. Cum. GPA: 3.85.
- Undergraduate Coursework: **Big Data Systems** [Graduate Level]; Operating Systems; Introduction to Artificial Intelligence; Algorithms; Data Structures; Computer Architecture; Compilers; Data Science; Computer Organization and Programming; Introduction to Computer Engineering; Java Programming; Linear Algebra.

PROJECTS

- **Farm Excess** (2019). Developed a web-based application which allows farmers to enter details about their excess produce and local community members to get customized recipes based on nearby farm surpluses. Node.js, HTML, CSS, Java, Python
- **Heap Allocator** (2019). Designed a heap allocator from scratch which uses the best fit placement policy with splitting and coalescing for the allocation of memory. C
- **Entity Matching** (2019). Used Fuzzy String matching to predict the similarity between two CSV documents with 91% accuracy. Python, Jupyter Notebook
- **Chain-Voting** (2018). Created a decentralized blockchain voting system with user authentication for simultaneous usage using Python TCP server sockets, firebase and multi-threading. Python

AWARDS

- **Best use of GCP (2019):** Awarded best use of GCP at MinneHack for Farm Excess out of approx. 100 projects.
- **Scholarship for Summer Study (2019):** Received a $1000 scholarship given to high-achieving students based on academic performance.

Languages and Technologies

- Java; Python; C; C++; JavaScript; JQuery; HTML; CSS; Pytorch; SQL; Bootstrap; x86; Matlab
- Visual Studio; Eclipse; XCode; Adobe Illustrator; Adobe Photoshop; Microsoft Excel;