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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), Systems Programming, Algorithms.
- 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: Building User Interface; 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

SELECT PROJECTS

- **Calorie Counter** (2019). Created a mobile application with user authentication which allows them to keep track of their daily calorie usage and update their fitness goals. **React-native, JavaScript, RESTful API**
- **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, JavaScript, Java, Python, Beautiful Soup, Google Distance Matrix API, Geocoding API**
- **Flood Watch** (2019). Developed a web application which alert residents to possible flooding in the near future based on their location and elevation with a danger score. **React, JavaScript, Bootstrap, HTML, Sass, Flask, Amazon EC2, Amazon DynamoDB, Python, Mapbox API, Dark Sky API, Jawg API**
- **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**
- **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 Google Cloud Platform (2019):** Awarded at MinneHack, MN for Farm Excess out of 120 participants.
- **Best use of JavaScript (2019):** Awarded at HackUIowa, IA for Flood Watch out of approx. 100 participants.
- **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, React, Bootstrap, JQuery, Node.js, HTML, CSS, Sass, Pytorch, SQL, x86, Matlab
- Visual Studio, Eclipse, XCode, Adobe Illustrator, Adobe Photoshop, Microsoft Excel