

KARTIKE CHAURASIA

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EDUCATION

University at Buffalo, The State University of New York

Anticipated December 2023

Bachelor of Science in Computer Science, **Tau Beta Pi – Member**

GPA: 3.80/4.00

- Matthew Grappone Memorial Award
- Professor Charles M. Fogel Scholarship
- David M. Benenson Memorial Scholarship
- 2022 Leaders in Excellence Award
- 2022 Emerging Student Leader – Nominee
- 2023 Innovative Student Leader Award

Relevant Coursework: Computer Vision and Image Processing, Machine Learning, Distributed Systems, Algorithms for Modern Computing Systems, Software Engineering, Web Applications, Probability, Linear Algebra, Computer Organization, Algorithms and Complexity, Data Structures, Systems Programming

SKILLS

Java, Scala, JavaScript, Python, C, Go/Golang, HTML/CSS, React.js, MongoDB, MySQL, PostgreSQL, Git, Linux, Docker, Postman

RELEVANT WORK EXPERIENCE

Head Teaching Assistant: Data Structures & Algorithms, University at Buffalo

August 2022 – Present

- Facilitate weekly tutorials for 10 hours, aiding students in mastering concepts related to **data structures and algorithms**
- Conduct reviews weekly, provide individualized instruction, **debugging** and **troubleshooting** assistance for 40 students
- Analyze and collaboratively grade assignments for a **cohort of 300 students**, maintaining rigorous academic standards

Software Engineering Intern, Stark & Wayne LLC

June 2022 – August 2022

- Engineered the UI/UX for Genesis UI, a **Docker** based web application, a versatile deployment framework for systems deployment across various infrastructure clouds using BOSH, and simplifying the deployment
- Worked within a team of 4 to streamline the **deployment, scaling, and upgrading of systems** like Cloud Foundry across multiple cloud infrastructures, enhancing the security and efficiency of web application components
- Enhanced user satisfaction and accessibility by adding functionalities using **React.js** to the UI/UX of the web application and creating a user-friendly guide outlining the prerequisites and steps for deploying Genesis Kits
- Developed backend APIs in **Golang** using **Gin web framework** to store and update deployments in **PostgreSQL** database container and implemented seamless deployment data integration using **GitHub API**

Athlete Tutor, University at Buffalo

November 2021 – May 2022

- Tutored 10 student-athletes in fundamental Computer Science and Calculus concepts like programming fundamentals, **object-oriented programming**, inheritance, polymorphism, derivatives, and integrals, achieving a 100% pass rate

PROJECTS

NEXT-LEVEL: Gamifying Leadership Conference

February 2023

- Developed a **Python based TCP Handler, MongoDB database, and an ADA-compliant front end** for efficient task completion
- Implemented a dynamic account login and registration system, which automated point allocation to teams upon successful task completion during the conference
- Leveraged web sockets to create a live, real-time scoreboard, significantly **reducing manual calculations and workload by up to 90% compared to the prior conference**

UBay: E-commerce Website for University at Buffalo

December 2022

- Led a team of 4 to develop an eCommerce platform for University at Buffalo stakeholders using **React.js, FastAPI Python-based framework, Sass for CSS, and PostgreSQL for the database**
- Designed a secure user account authorization system employing **bcrypt** library and implemented session cookies
- Devised an auction feature using web sockets with real-time bid tracking for the highest bidder when an auction ends

Gamifying Learning: UB Hackathon

November 2020

- Conceptualized and implemented a user-friendly quiz game using **Java NetBeans** as the development platform, the game was aimed at enhancing the geographical knowledge of users by testing them on country-capital relationships

LEADERSHIP EXPERIENCE

Student Engagement Ambassador, University at Buffalo

August 2021 – Present

- Advise and mentor **12 - 20 students per semester** to help increase campus engagement and foster development
- Shared insights and experiences with alumni as a **panelist alongside the Vice President** of the University at Buffalo, showcasing the dynamism and talent within our student body

Resident Advisor, University at Buffalo

August 2022 – Present

- Oversee administrative tasks including budgeting, maintenance requests, incident reports, and resident check-ins for a dormitory **housing 200+ students, reducing administrative errors by 50%**
- Establish and conduct programs on diversity, personal growth, and academics to help **23 first-year students** be career ready