

ASHLEY GRANT

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EDUCATION

UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK
Master of Science, Management Information Systems (3.80/4.0)

Jun. 2023

UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK
Bachelor of Science, Computer Science (GPA 3.28/4.0) Latin Honors Cum Laude

Jun. 2022

JOB EXPERIENCE

University at Buffalo, The State University of New York
Undergraduate Teaching Assistant – Computer Science Department

Buffalo, New York
Sep. 2020-May. 2023

- Taught backend development concepts of server-side browsers to a class of 180 students, emphasizing practical application of web development concepts in projects.
- Hosted personalized office hours to guide and assist 300+ computer science students on project development, solving problem sets, and practical application of computer science concepts.
- Analyzed and diagnosed problematic code embedded in student projects, launching effective debugging techniques to identify root causes of errors.
- Integrated Scala unit tests, Java unit tests, Postman, and Docker for test-driven development, ensuring robustness and accuracy of student projects within strict 3-day time frames.
- Led review sessions, labs, and office hours for introductory computer science classes, supporting 550+ students in understanding lecture materials and troubleshooting questions.
- Conducted weekly interviews with 40+ students, assessing comprehension of specific modules and determining advancement to next course module in collaboration with other teaching assistants.
- Collaborated with teaching assistants through peer grading, reviewing, and reassessing interview reports to ensure accurate evaluation of students' knowledge and understanding.

PROJECT EXPERIENCE

Web Application – Social Media Platform

Feb. 2022-May. 2022

- Generated full-stack proficiency by designing and developing a social media web application with vanilla HTML, CSS, and JavaScript for front end and vanilla Python for back-end.
- Strengthened security of login and registration processes by assembling authentication cookies in Python, ensuring users' credentials are securely validated against a database.
- Managed a database of 50+ user accounts, ensuring seamless user registration and authentication processes, resulting in a 95% success rate in user account creation and login.
- Built web sockets to enable real-time user communication, enabling live chat functionality within web applications, resulting in a 50% reduction in message delivery latency and a 60% increase in overall user engagement.
- Executed rigorous functional and standard testing and continuous web application improvement to ensure high-quality deployment within Docker containers, resulting in a 40% decrease in deployment time and a 50% increase in deployment success rate.
- Architected GitHub for efficient version control, managing and tracking over 500 code changes and optimizations throughout development lifecycle. Coordinated a highly collaborative team of 3 developers, overseeing front-end and back-end development.

Website – High Five Club

Sep. 2021-Dec. 2021

- Collaborated with a high-performing team to develop and launch a website that facilitated virtual rooms, resulting in a user base of 25+ users within the first month of launch.
- Demonstrated full-stack expertise by designing and customizing front-end in vanilla HTML and CSS while building a robust back-end infrastructure engineered in Python and Node.js.
- Integrated with a movie API, enabling real-time retrieval of movie data, resulting in an up-to-date catalog of 5,000+ movies for users to vote on, with an average of 50 votes per day.
- Ensured seamless future updates by implementing pre-deployment techniques through Docker Containers, reducing deployment time by 40% and minimizing system downtime during updates.
- Assumed the role of project manager, leading the team's organizational planning and task assignment efforts through agile methodology using the Zenhub Board, resulting in a 20% increase in task completion efficiency and a 10% decrease in project delivery time.
- Established a collaborative approach within a team of 5 for seamless production deployment protocols on Heroku by facilitating team strategy sessions to standardize continuous commit code practices to maintain a highly synchronized GitHub repository.

SKILLS

Languages: Python, Scala, HTML and CSS, JavaScript, SQL, Java **Frameworks:** React.JS, Django

Certifications: AWS Cloud Practitioner, Code path Technical Prep , Code path IOS Development

Databases: MongoDB, Oracle **Software Tools:** GitHub, Docker, Command Line, Linux Virtual Machines, Heroku, Zen hub

Concepts: Backend development, HTTP, RESTful APIs, data structures, object-oriented programming (OOP), security, authentication, authorization