

Ashutosh Rastogi

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Education

Master's Degree (Computer Science and Engineering) | University at Buffalo | 12/2023 | Buffalo, NY

- With Distinction (GPA: 3.54/4.0) with a focus on optimizing algorithms and enhancing software development skills.
- Achieved exemplary performance in Analysis of Algorithms (A grade) and demonstrated proficiency in functional programming through Programming Language Fundamentals.
- Developed expertise in Robotics Algorithm, gaining advanced knowledge in cutting-edge technologies and algorithmic problem-solving.

Summary

Recent Software Engineering graduate with a strong foundation in software design, development, and testing. Skilled in optimizing code efficiency, developing scalable solutions, and enhancing user experiences. Passionate about leveraging cutting-edge technologies to drive innovation and deliver high-quality software solutions. Eager to contribute to a dynamic team and make a significant impact in the field of software engineering.

Academic Experience

University at Buffalo | Buffalo | NY

Robotics Project Developer | 09/2022 - 12/2022

- Leveraged Python programming and Linux environment to optimize a ROS Gazebo robotics project, significantly improving simulation accuracy and performance. Applied advanced techniques to enhance the overall quality and efficiency of the project structure.
- Implemented advanced odometry and path planning algorithms, ensuring dynamic and precise robotic motion simulation.
- Demonstrated proficiency in Robot Operating System (ROS) framework and expertise in software development for robotics, utilizing Gazebo simulation tool in a Linux-based environment.

University at Buffalo | Buffalo | NY

Connect4 Game Developer | 02/2019 - 05/2019

- Took charge of the complete lifecycle of a high-performance Connect4 gaming application, utilizing Java, JavaScript, and C++ to optimize gameplay mechanics and code efficiency. Implemented advanced techniques and algorithms to enhance the overall game performance.
- Implemented cutting-edge features, enhanced performance, and ensured a seamless user experience by integrating Java libraries, JavaScript frameworks, and C++ programming. Leveraged advanced techniques and industry best practices to optimize code efficiency.
- Demonstrated exceptional problem-solving skills, meticulous attention to detail, and leadership in optimizing game mechanics and implementing performance enhancements for superior gameplay and responsiveness.

University at Buffalo | Buffalo | NY

Peer-to-Peer Ridesharing System Developer | 02/2020 - 05/2020

- Developed scalable Peer-to-Peer Ridesharing System with robust File Sharing Model using R, Java, SQL, Network Protocols.
- Implemented efficient chat module for seamless message processing and targeted delivery, optimizing performance.
- Collaborated actively in design discussions, code reviews, and team meetings, ensuring adherence to industry best practices and delivering high-quality software solutions. Demonstrated expertise in Agile development methodologies, version control (Git), and continuous integration (CI/CD), driving efficient collaboration and seamless integration of code changes.

Skills

Languages: C/C++, Python, R, SQL

APIs & Libraries: OpenCV, Keras, NumPy, Scikit-Learn, TensorFlow

Database & Web Development: MS-SQL, SQLite, NoSQL(Pouch/Couch), HTML/CSS

Tools: Anaconda Navigator, Gazebo, Tableau, Eclipse, Power BI, Git

Awards & Involvement

Membership Lead: Gurukul Student Chapter, Gurukula Kangri University | 08/2018 - 06/2022

- Led and optimized the growth of Gurukul Student Chapter, driving engagement and impactful initiatives to foster collaboration and empower members for success in data science. Spearheaded the implementation of data-driven strategies, leveraging Python, R, and SQL to enhance the effectiveness of chapter activities and drive data-informed decision-making. Actively organized workshops, seminars, and competitions to cultivate a thriving data science community and promote continuous learning and skill development among members.