KRISH KHATRI

Houston, TX ♦ 864-908-9207 ♦ krishkhatri@rice.edu ♦ https://www.linkedin.com/in/krish-khatri/

EDUCATION

Rice University   Houston, TX
Master of Science in Computer Science   Aug. 2021 – Dec. 2022

The University of Alabama   Tuscaloosa, AL
Bachelor of Science in Computer Science   Aug. 2018 – May. 2021

SKILLS

Data Structures and Algorithms, Software Testing and Validation, Software Documentation Control, Customer-Centric Approach, Data Storage and Retrieval, Strong Communication and Interpersonal Skills, Data Analysis, Scrum Methodology, Technical Requirements

TECHNICAL SKILLS

- **Languages:** C, C++, Java, C#, Python, JavaScript, HTML, CSS, SQL, TypeScript, PHP
- **Tools & Technologies:** AWS, MS Visual Studio, Eclipse, IntelliJ, Android, PyCharm, Linux, Windows, PyTorch, Angular, Oracle RDBMS, MongoDB, MySQL, CLion, Docker, GIT

WORK HISTORY

Graduate Teaching Assistant   Aug. 2022 – Current
Rice Computer Science Department – Houston, TX
- Checked assignments, proctored tests, and provided grades according to university standards.
- Taught software design patterns and their use in multiple programming paradigms.
- Used design patterns as a means of explaining fundamental computer science concepts and abstractly decomposing complex problems.
- Familiarized students with industry-standard tools and technologies including IntelliJ, Subversion, and round-trip engineering design tools.

Software Development Engineer Intern   May. 2022 – Aug. 2022
Amazon – Austin, TX
- Assisted with website maintenance, development and maintenance of in-house software development.
- Participated in entire software development cycle from start-up specifications to rollout of final product.
- Developed and deployed an internal AWS service using Java, Amazon Web Services, and Typescript, resulting in a 20% acceleration in decision-making on hazardous materials and dangerous goods stored and transported in warehouses.
- Worked with design teams and Senior Software Engineers to build customized software products for consumers.
- Created detailed design documents and diagrams, as well as RESTful APIs, to facilitate faster data fetching and filtering of hazardous materials.
- Assumed responsibility for approving and merging pull requests for the production codebase.
- Improved the efficiency and effectiveness of internal AWS applications by translating UI design wireframes into code, resulting in a 30% reduction in support tickets and workload.

Flight Software Intern   Jan. 2021 – Aug. 2021
UASpace (NASA 2020 Launch Initiative) - Tuscaloosa, AL
- Collaborated with other developers to identify and alleviate number of bugs and errors in software.
- Wrote technical documentation for new software in development.
- Implemented a drag sail deployment system using Python that improved communication and connection between core flight software modules by 30%.
- Designed a flight path system using optimal path planning and trajectory optimization algorithms to reduce flight time by 10%.
- Developed an internal communication system in C for the CubeSat to maintain constant communication with ground stations.

Software Engineer Intern   Jan. 2021 – May. 2021
The University of Alabama – Tuscaloosa, AL
- Successfully led a project to design and develop a user-friendly, dynamic, and responsive website that effectively showcased interactive citations from the Zotero database.
- Created custom responsive WordPress plugins in PHP to efficiently extract data from the Zotero database and present it in an appealing manner.
- Developed API's and wrappers to seamlessly integrate the website with the existing Zotero API's, allowing for easy access to the database.
- Designed and implemented a user-friendly GUI using HTML, CSS, and JavaScript, ensuring a smooth and intuitive user experience.
- Created web-based database management tools using JavaScript, HTML, and CSS, which enabled effective history management and data modeling.

PROJECTS

Employee Management Web Application: HTML, CSS, C, PHP, SQL, MYSQL
- Created an employee management web application using a combination of C for the back-end and HTML, CSS, and PHP for the front-end.

Course Management System: Java, CSS, HTML, MySQL, Servlets, JSP
- Created a comprehensive, three-module online course management system to facilitate efficient communication and collaboration between students and instructors.