Kausshik Manojkumar

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Education

Iowa State University	Expected: May 2025
Bachelor of Science in Computer Science, Minor in Mathematics	GPA: 3.95
Online Coursework: Machine Learning Specialization, Stanford University Online	Jan 2024

Work Experience

Software Engineering Intern, Collins Aerospace – Cedar Rapids, IA   May 2023 – Present
- Executed high-level and low-level tests in an Agile environment, enhancing software reliability and ensuring strict adherence to specified requirements. Conducted regression tests to validate software stability.
- Translated high-level and low-level requirements into efficient, structured code to align with project objectives and meet client specifications.
- Formulated and refined test cases, leading to a more efficient testing process. Proactively identified and mitigated security risks within test procedures.

IT Technician, Iowa State University – Ames, IA   Aug 2022 – May 2023
- Cleared long-standing IT tickets by leveraging advanced computer programming skills, particularly in JavaScript, to develop automated solutions, enhanced efficiency, and reduced related issues by 90%.
- Provided technical support for software issues, ensuring minimal downtime and optimal user experience.

Projects

SwipeHire Android Application   Jan 2023 – May 2023
- Utilized Spring Boot, Maven, Hibernate, and MySQL to develop CRUDL operations and REST APIs, while integrating WebSocket for real-time features and Swagger for API documentation, thereby offering an all-inclusive platform for efficient hiring management.
- Established CI/CD pipelines, automating code deployment to ensure rapid iterations and updates.
- Collaborated closely with front-end developers to ensure seamless communication and alignment between components. Led technical troubleshooting efforts, addressing challenges, and reducing downtime by 25%.
- Conducted code reviews, enforcing best practices, and maintaining a high standard of code quality.

Personal Portfolio   July 2023 – Aug 2023
- Designed and developed a responsive personal portfolio website using HTML, CSS, and JavaScript to showcase my projects and skills. Utilized modern web design practices and frameworks to ensure an engaging user experience.
- Deployed the website using AWS technologies: utilized AWS S3 Buckets for scalable storage and AWS CloudFront for content delivery to ensure fast loading times and global accessibility.

Brain Tumor Classification   Aug 2023 – Sep 2023
- Engineered a data preprocessing pipeline for over 3000+ MRI images, ensuring optimal model training conditions, and implemented TensorFlow/Keras to develop a convolutional neural network (CNN).
- Leveraged transfer learning with EfficientNet pre-trained on ImageNet, resulting in a 30% enhancement in model accuracy compared to baseline models. Utilized TensorBoard for hyperparameter tuning and performance insights.
- Achieved an impressive 97% accuracy on the test set; rigorously validated the model's efficiency using real-world medical data from multiple patients, including practical cases, with an accuracy of 90%.
- Crafted an interactive UI using IPython widgets for real-time image classification, facilitating medical applications.

Skills

Programming Languages: Python, Java, C, C++, JavaScript, SQL, Verilog, Bash   **OS:** Linux, macOS, Windows
Frameworks: HTML5, CSS, Spring Boot, Node.JS, ReactJS, TensorFlow, Sklearn, OpenCV, NumPy, Matplotlib, Pandas, ROS
Version Control: Git, Gitlab   **Databases:** MySQL, Microsoft Excel   **Platforms:** AWS

Extra Curricular Activities

National Talent Search Examination Scholar 2019: Placed in the top 2000 out of 1.5 million students across India
Delegate for India, Royal Commonwealth Society's India-Malaysia Student Exchange on Sustainable Development Goals