Meghana Chevva Software Engineer/Developer

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PROFESSIONAL EXPERIENCE

The University of Texas at Arlington – Computer Science Dept., USA **Aug 2024 – Present**

Graduate Teaching Assistant

- Assist students in understanding complex AI concepts, including machine learning, neural networks, and data analysis.
- Provide support during lectures and lab sessions, helping students troubleshoot and solve coding issues related to AI algorithms and models.
- Grade assignments and exams, ensuring accurate and timely feedback.
- Conduct review sessions and offer one-on-one assistance to students to enhance their understanding of course material.
- Collaborate with the professor to develop course materials and refine teaching strategies.

The University of Texas at Arlington – Enterprise Project Management Office, USA **Apr 2023 – Aug 2024**

Student Assistant

- Created and maintained reports and dashboards using ServiceNow, Power BI, and Microsoft Office Suite, ensuring alignment with EPMO standards.
- Worked closely with OIT team members, providing insights and support to ensure smooth project operations.
- Monitored and conducted quality reviews of the full project portfolio, focusing on critical projects.
- Prepared comprehensive portfolio status reports and tracked key statistics, including project status, priority, business unit, and cost.
- Maintained reports for the Resource Management tool in ServiceNow, ensuring alignment with OIT and EPMO standards.

NCR Atleos, HYDERABAD, INDIA **Oct 2020 – Dec 2022**

Software Engineer I

- Designed and developed significant functional enhancements within the NCR Activate Enterprise Product, a self-service ATM software application. Leveraged a combination of .NET and AngularJS technologies to ensure seamless support for a diverse range of transactions. This included incorporating customer feedback and adhering to Service Level Agreements (SLAs) to guarantee timely and effective solutions that met or exceeded client expectations.
- Utilized advanced Component Interaction techniques within AngularJS to optimize the NCR Activate Enterprise Product. This involved creating reusable components, directives, and services to enhance modularity and maintainability. The optimization led to improved application performance, reduced load times, and a more responsive user experience, contributing to overall system efficiency.
- Implemented and managed thorough Continuous Integration and Continuous Delivery (CI/CD) pipelines using GitHub Actions and Jenkins. These strategies facilitated the swift identification of potentially disruptive changes, enabling proactive troubleshooting and maintaining product stability. Automated builds, tests, and deployments ensured a consistent and reliable delivery process, minimizing downtime and improving development velocity.
- Devised and scripted over 500 automation test cases using Java and Robot Framework. Developed custom remote libraries to address specific product functionalities, ensuring comprehensive coverage of the product's feature set. These automated tests significantly reduced manual testing efforts, improved test accuracy, and accelerated the release cycle while maintaining high-quality standards.
- Upheld stringent product quality standards by meticulously crafting Unit Tests using C# in conjunction with the NUnit framework. This approach ensured robust and reliable code throughout the product lifecycle, reducing testing overhead and enhancing overall code quality. The integration of unit tests into the CI/CD pipeline allowed for early detection of issues, facilitating faster resolution and continuous improvement.
- Utilized GitHub for version control and collaborative development. Managed repositories, performed code reviews, and utilized branching strategies to streamline development workflows. Employed GitHub Issues and Projects to track progress, manage tasks, and ensure alignment with project goals. This collaborative approach fostered effective teamwork and maintained high standards of code quality and project management.
- Transitioned components and features from AngularJS to modern front-end technologies using TypeScript and React. This modernization effort improved code readability, maintainability, and performance. Leveraged TypeScript's static typing to catch errors early in the development process and utilized React's component-based architecture to create dynamic and responsive user interfaces.

NCR Atleos, HYDERABAD, INDIA **Jan 2020 – Oct 2020**

Software Intern

- Worked under the guidance of Senior Software Developers to implement and update various application modules within the NCR Activate Enterprise Product. This involved translating complex requirements into functional and efficient code, adhering to best practices and coding standards. Actively participated in code reviews and design discussions, contributing to the overall architecture and ensuring alignment with project objectives and timelines.
- Operated effectively at an independent level, taking ownership of tasks and delivering high-quality results. Demonstrated strong problem-solving skills and the ability to work autonomously on complex assignments. Simultaneously, served as an enthusiastic collaborator, actively participating in team meetings, knowledge-sharing sessions, and collaborative coding efforts. Fostered a positive team environment by providing constructive feedback, supporting peers, and contributing to a culture of continuous learning and improvement.
- Leveraged automated testing frameworks to identify intricate bugs and potential issues within the application. Conducted thorough analysis and debugging to pinpoint root causes of defects. Utilized .NET and AngularJS to resolve these issues, ensuring that fixes were effective and did not introduce new problems. Maintained a proactive approach to quality assurance, continuously refining and improving the automated test suites to enhance bug detection capabilities and ensure the robustness of the application.

PROJECTS

Portfolio | https://www.meghanachevva.com/ **Jun 2024**

- Designed and developed a responsive website using Node.js, showcasing comprehensive full-stack web development skills. The project involved creating a visually appealing and user-friendly interface that adapts seamlessly to different devices and screen sizes. Utilized HTML, CSS, and JavaScript to craft the front end, ensuring a smooth and engaging user experience. Leveraged Node.js for the back end to handle server-side logic, data processing, and communication with the database.
- Implemented dynamic content management features, allowing for the easy updating and management of website content. Utilized Express.js for efficient routing and middleware management, streamlining the handling of HTTP requests and responses. This modular approach facilitated the creation of a scalable and maintainable codebase, enabling the addition of new features and functionalities with minimal effort.

Znake Xenzia (Unity Game) | https:// www.meghanachevva.com/znake-xenzia **May 2024 – Jun 2024**

- Created an engaging Snake game using Unity, focusing on core gameplay mechanics such as player-controlled movement and food collection. Implemented smooth and responsive player controls to ensure an enjoyable and intuitive gaming experience. Developed the food collection system, where the snake grows longer with each piece of food collected, adding to the game's challenge and excitement.
- Introduced customizable gameplay settings to enhance user experience and replayability. These settings allowed players to adjust various parameters such as snake speed, game difficulty, and grid size. Implemented a user-friendly settings menu where players could easily modify these options, providing a personalized gaming experience tailored to individual preferences.

InsightML (Machine Learning Application) | https:// www.meghanachevva.com/mlapp **May 2024**

- Built InsightML, a user-friendly platform for building and evaluating machine learning models on CSV datasets, aimed at making machine learning accessible to users of all skill levels.
- Implemented data upload, preprocessing, model training, and evaluation functionalities using Streamlit, facilitating seamless integration of data handling and visualization components.
- Integrated Python libraries like scikit-learn and pandas to support comprehensive model training and evaluation for both classification and regression tasks, offering diverse modeling options.
- Provided customizable model parameters and detailed evaluation metrics, enabling users to optimize model performance and interpret results through interactive visualizations, ensuring effective model assessment and improvement.

File Upload and Add Sort Using JAVA RMI | https://github.com/meggitt/JavaRMI **Mar 2024**

- Developed a Java RMI (Remote Method Invocation) client-server application designed for efficient file management operations such as upload, download, and synchronization. Additionally, the application supported computational tasks including addition and sorting, providing a comprehensive solution for both data management and processing needs.
- Implemented robust communication protocols to ensure secure and reliable data transfer between the client and server. Utilized Java RMI's capabilities to enable remote method calls, facilitating seamless interaction and coordination between distributed components.
- Created Command Line Interfaces (CLI) for both the client and server, allowing users to easily perform file management and computational tasks through straightforward commands. The CLI was designed to be user-friendly and intuitive, streamlining the user experience.

Movie Search Engine (Elasticsearch) | https://github.com/meggitt/ElasticSearch-Movie-Search-Engine **Feb 2024**

- Developed a movie search engine using Elasticsearch and Sentence Transformers, enabling efficient and accurate semantic search capabilities for large movie datasets.
- Implemented data cleaning and embedding processes, ensuring high-quality data preparation for indexing and improved search relevance.
- Created a Streamlit-based application for interactive movie searches, providing a user-friendly interface with filtering options based on criteria such as genre, release year, and rating.

Crypt-It (MEAN Stack) | https:// www.meghanachevva.com/crypt-it **Oct 2023- Dec 2023**

- Developed Crypt-It, a secure file sharing application featuring advanced encryption and JWT-based authentication for robust security.
- Utilized Node.js and MongoDB for the backend infrastructure, leveraging Node.js for server-side logic and MongoDB for efficient data storage and retrieval.
- Implemented OTP-based password reset functionality to enhance account security and user verification processes.
- Incorporated security best practices such as secure management of environment variables to protect sensitive information and implemented rate limiting to mitigate potential abuse and ensure system stability.

EDUCATION

MASTER OF SCIENCE, COMPUTER SCIENCE **Jan 2023 – Dec 2024**
The University of Texas at Arlington, Texas, United States ***CGPA**: 4/4*

BACHELOR OF TECHNOLOGY, COMPUTER SCIENCE **Aug 2016 - Sep 2020**
CMR College of Engineering and Technology, JNTUH, Hyderabad, India ***CGPA**: 8.53/10*

SKILLS & TOOLS

C, C++, Java, C#, Python, HTML, CSS, JavaScript, TypeScript, AngularJS, ReactJS, NodeJS, .NET, WebGL, Selenium WebDriver, NUnit, Eclipse IDE, Visual Studio, Visual Studio Code, Unity, GitHub, Jenkins, AWS CodePipeline, MySQL, MongoDB, NoSQL, GraphQL, AWS RDS, HTTP REST, AWS Lambda, Windows, Linux, Ubuntu, macOS, AWS (Amazon Web Services), Azure, Cascade, Visio, Office 365, PowerBI, Jira.

PROFESSIONAL AFFLIATIONS

- Tau Beta Pi (International Engineering Honor Society) Secretary
- Alpha Chi (National College Honor Society) Member
- UTA ACM Executive Officer