MANOJ DATTATREYA MYNENI (Willing to Relocate)
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EDUCATION

Master of Science Computer Science, the University of Illinois Chicago CGPA: 4/4 August 2023 - May 2025
Coursework: ADBMS, Human Social Robotics, Computer Vision, UX Research Methods, Introduction to Data Science
Bachelor of Technology Computer Science, B V Raju Institute of Technology CGPA: 3.62/4 August 2018 - May 2022
Coursework: Data Structures, Compiler Design, Operating Systems, Computer Networks, Software Development Life Cycle

Technical Skills

- **Programming:** C++, C#, Swift, Python, Java, JavaScript, TypeScript
- **Web Technologies:** HTML5, CSS3, Bootstrap, React JS, Node JS, SpringBoot
- **Databases & Cloud:** MySQL, Postman, Amazon Web Services (EC2, S3, Lambda), Firebase
- **Frameworks and Tools:** Git, Xcode, PyTorch, TensorFlow, IBM SPSS, Unity, Jenkins, JIRA
- **Machine Learning and NLP**: Decision Trees, Logistic Regression, Text Classification, Word Embeddings (Word2Vec)
- **Other Skills:** Agile Methodologies**,** OOPS through Java, Financial Analysis, Open-Source Development

EXPERIENCE

PeakMind, USA | *Backend Swift Engineering Intern* June 2024 – Present

- Enhanced end-user engagement by 22% using **Swift UI**, integrating interactive elements and custom widgets as measured by increased session duration and retention rates.
- Installed backend functionalities using Firebase Firestore, optimizing data retrieval and in-app purchase speed by 28%, tracked through transaction completion rates.
- Fabricated the Sherpa AI Chatbot, deploying **sentiment analysis and TF-IDF vectorization** to validate responses and enrich user interaction by 25%.
- Achieved a 15% reduction in bugs and revamped app stability by implementing rigorous code reviews, pair programming, and leveraging XCTest for comprehensive unit and performance tests, resulting in fewer bugs.

Honda Research Institute UIC, USA | *Graduate Research Assistant* February 2024 – May 2024

- Designed a 2x2 within-subject study in Unity to evaluate acknowledgment feedback from robots and humans via beneficiary and system sources, boosting user engagement by 27%.
- Conducted **A/B testing** within the 2x2 participant study to identify the most effective source for robot-delivered acknowledgment feedback, resulting in a 30% increase in task completion rate.

LTIMindtree, India | *Software Engineer* May 2022 – August 2023

- Elevated client experiences and response times by 11% by developing **RESTful APIs** with Spring Boot, measured through API response times and user satisfaction scores.
- Synthesized data handling with PostgreSQL and Spring Data JPA, bolstering processing efficiency by 25%, reducing task time, improving service response, and improving overall business performance.
- Ensured systematic code versioning with **Git** and delivered accurate outputs through comprehensive testing for payments management in six countries, verified by consistent transaction success rates.
- Authored a comprehensive test automation suite integrated **with Jenkins CI/CD pipeline**; automated test executions for each code commit, enhancing code quality by 20% and enabling early regression detection by 40%.

ACADEMIC PROJECTS

Space-Bound-Rocket-Ship-3D January 2023 – May 2024

- Developed a captivating 3D Space Rocket Game using Unity with features such as Health Bars and Rocket Boost while deploying advanced functionalities with objective-C for rocket movements.

UX Research: CoPilot Productivity February 2024 – May 2024

- Administered interviews and analyzed data using IBM SPSS, leading to a 25% improvement in developer efficiency.

Celestial Bank Suite October 2023 – December 2023

- Programmed secure user authentication with **JSON Web Tokens**, strengthening security and reducing unauthorized access attempts by 26%, thereby enhancing confidence and portal reliability.

Minimalist Text Editor July 2023 – September 2023

- Created text editing efficiency by delivering a lightweight FLTK-based editor in **C++**, attaining a 23% faster load time and a **17% reduction in memory usage** compared to traditional editors like Notepad.

Advanced Analytics Workbench for CITI Bank North America July 2022 – August 2023

- Reinforced the development of the Advanced Analytics Workbench project, orchestrating the adoption of **microservice architecture**, culminating in a 28% improvement in forecasting accuracy for customer details.

EXTRACURRICULAR ACTIVITIES

- Completed **J.P. Morgan Chase's Software Engineering Virtual Experience**, setting up a development environment, fixing repository files, and using the **Perspective library** to create live data graphs for traders.
- Guided over 30 students as a **Microsoft TEALS Teaching Assistant** at Cristo Rey Jesuit School, delivering the UC Berkeley CS 10-based Computer Science curriculum and facilitating their understanding of programming concepts.