

Dharmesh Adith Varma Penmetsa

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EDUCATION

University of Florida, Gainesville, FL

Aug 2023 – Dec 2024

Master's in computer science

GPA - 3.50

Coursework: Advanced Data Structures, Human-Computer Interaction, Software Engineering, Math for Intelligent Systems, Distributed Operating System Principles, Ux Design, Computer Networks, Cloud Computer Systems Management, 3D Audio.

SKILLS

Languages : Java, Python, Scala, Go, JavaScript, SQL.

Technologies : Kafka, Spark, Node.js, Docker, Kubernetes, AWS, PostgreSQL, Cassandra, Power BI, Hadoop, CI/CD.

Frameworks/Tools : Git, Data Bricks, Spring Boot, Hibernate, Jenkins.

Certifications : AWS Solution Architect Associate, Azure Fundamentals, Azure Administrator Associate.

PROFESSIONAL EXPERIENCES

Full Stack Developer | CNT Infotech Corporation - (Delaware Department of Correction)

April 2025 – Present

- Built dynamic UIs and RESTful APIs using **HTML/CSS**, **JavaScript**, **Thymeleaf**, and **Spring Boot**, boosting user engagement by 25%.
- Led the successful migration of a legacy monolithic application to a microservices-based architecture, reducing deployment time by 40%.
- Oversaw the software development lifecycle from planning to deployment, ensuring 99.9% uptime and improving delivery speed by 30%.

Software Development Engineer | NRich Enterprise Solutions

Feb 2025 – April 2025

- Re-engineered an internal employee portal by implementing **Java Spring Boot APIs** and a **React**-based frontend, improving system scalability and responsiveness by 40%.
- Resolved critical issues in Provider and Member modules, increasing system reliability by 45% and significantly reducing support tickets.
- Collaborated in **Agile** sprints with cross-functional teams, accelerating feature delivery by 30% while maintaining high quality.

Software Development Engineer | Quantum Pulse Consulting

Oct 2024 – Dec 2024

- Enhanced Client employee portal with **React**, **Python**, and **PostgreSQL**, reducing manual contract/document lookup time by 40%.
- Improved UX/UI using wireframing and usability testing; optimized backend to deliver ~40–60 ms response time per page.
- Added unit tests in **Python** and **SQL** to validate business logic and schema rules, ensuring 99.9% data consistency across database.

Software Development Engineer | Deloitte Haskins and Sells LLP

Jun 2022 - Nov 2022

- Implemented semi supervised **Machine learning** algorithms to enhance fraud detection accuracy by 20% using **Python**, **Apache Spark**, and **AWS**, improving predictive analysis and anomaly detection for fintech clients.
- Designed scalable ETL processes for employee performance evaluation, leveraging **Apache Spark**, **AWS S3**, and **Python** that improved data processing efficiency by 30%.
- Created an interactive **Power BI** dashboard integrating data from multiple sources to evaluate telecommunication service plan effectiveness with a quarterly data pipeline. Saved 10% in stakeholder costs and accelerated analytics delivery by 30%.

Software Development Engineer | Zero Deficiency Pvt Ltd

Jun 2020 - Jun 2022

- Designed and developed scalable backend services using **Java**, **Spring Boot**, **MySQL** with **Hibernate ORM** to manage product, user, and recommendation data efficiently for a health supplement e-commerce platform, featuring modular architecture.
- Engineered a **Kafka**-based data streaming architecture to deliver personalized recommendations with a real-time data transmission, ensuring zero data loss through efficient event processing and robust message reliability.
- Containerized the microservices using **Docker** and implemented CI/CD pipelines with **Jenkins** for faster, reliable deployments.

PROJECTS

Immersive Meditation App | [GitHub](#)

- Developed a sophisticated 3D spatial audio engine using **Python** with personalized Head-Related Transfer Functions (HRTF) to deliver an immersive, user-centric meditation experience, significantly enhancing engagement and audio realism.

Hide and Speak

- Built Python-based Agentic AI system with **GPT-4**, **LangChain**, and **RAG**, enabling real-time avatars with dynamic expression control.

Reddit Clone Engine | [GitHub](#)

- Engineered a scalable Reddit clone using **Go** and **Gin** framework with high-concurrency support and thread safety using mutex.

Rating Generation using NLP

- Built a system to convert reviews into numerical ratings using **Scikit-learn** for model training. Utilized **NLTK** for efficient data preprocessing, enhancing sentiment analysis accuracy.

Wi-Fi File Transfer App

- Developed a Wi-Fi file transfer app using **Java Spring**, leveraging peer-to-peer architecture and routing protocols.

PUBLICATION

Aspect-Based Sentiment Classification Using Deep Memory Network | [Research Paper](#)

- Developed a deep memory network with neural attention for aspect-level sentiment analysis, achieving 15 times faster performance and higher accuracy than LSTM and SVM.