Praneeth Reddy Penugonda

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Education

San Jose State University — San Jose, CA

M.S. in Computer Software Engineering — *Expected Graduation, May 2025*

- **GPA**: 3.90/4.00, Dean's List
- **Relevant Coursework**: Data Structures & Algorithms, Enterprise Distributed Systems, Software Systems Engineering, Data Science, Machine Learning, Cloud Computing, Object-Oriented Programming

Professional Experience

Mobisprint Consulting Pvt Ltd — April 2023 - Aug. 2023

Software Engineer Intern - Online Learning Platform — *Hyderabad, IN*

- Enhanced a cross-compatible educational platform using the MERN stack, Substituting a legacy application and integrating third-party React libraries with Redux management led to a 35% improvement in performance.
- Executed a MySQL to MongoDB migration for 8 tables and 4.5 million records, reducing response time by 30%.
- Created customized Jenkins CI/CD pipeline scripts for building, testing Docker images, and deploying microservices in a Kubernetes cluster, resulting in a 25% enhancement in delivery efficiency.
- Implemented Selenium-based testing frameworks, automating the testing process and reducing bugs by 25%.
- Engaged as a coordinator for 5+ junior interns, provided mentorship and guidance, and monitored their progress.

Mobisprint Consulting Pvt Ltd — Oct. 2022 - Jan. 2023

Data Scientist Intern - Financial Services Company — *Hyderabad, IN*

- Created a data imputation framework that combines predictive model techniques like k-NN, SVM, and decision trees, enhancing the precision of current ML models by 10%. This approach scales efficiently to large datasets.
- Developed a technique to transform intricate deep neural networks into local linear models, creating local profile plots, fostering interpretability, and aiding financial decision-making with insightful visualization tools.

Oxylator Technologies — May 2021 - Aug. 2021

Software Engineer Intern - E-commerce Company — *Hyderabad, IN*

- Collaborated with cross-functional teams to launch a subscription model using PayPal for seamless payments and MongoDB for data storage, strategically propelling revenue growth by 15% and elevating user engagement.
- Incorporated Apache Kafka with the ELK (Elasticsearch, Logstash, Kibana) stack for test results and log analysis.
- Spearheaded Auth0 and Okta for API security, employed Redis for enhanced data access speed by 20%.
- Involved in daily stand-ups, and employed Agile methodologies throughout the software development life cycle.

Projects

MovieTheater Club application | *React JS, Node JS, APIs, MongoDB, AWS services EC2*

- Led as a Scrum Master in the full-stack development of a client-server architecture movie ticket booking site, collaborating with a 4-member Agile team to implement CRUD operations, host on AWS EC2 with autoscaling and load balancing, and deploy the frontend on Vercel, resulting in a seamlessly operational and scalable platform.

Immigpt | *AWS, GCP, LLM, Machine Learning, DynamoDB, Python, React, Node.js* | Website

- Engineered a dynamic web portal that harnessed the power of large language models and machine learning algorithms to provide immediate and accurate answers to immigration inquiries.

Sales Prediction to Prevent Store Closure | *Python, Machine Learning*

- Directed sales forecasting with advanced regression models (Ridge, ensemble), leveraging Python for seamless dataset integration and meticulous model selection to achieve superior retail sales predictions.

Leadership & Achievements

Publications: A Study on Modern Methods for Detecting Mobile Malware
Hackathons: Secured first place in the MobiSprint-AI Hackathon, Hands-on Robotics, and Math-a-Thon
Works: Student Ambassador - Adobe | Ex-Core Committee Member - IEEE MTT-S, IEEE NPSS
Certifications: Google Advanced Data Analytics Certificate, IBM's Generative AI, Full Stack Specialization

Technical Skills

Programming: C, C++, JavaScript (React, Redux, Node.js, Express.js), HTML/CSS, Python, Java, Golang, GraphQL
Tech Stack: MySQL, MongoDB, Oracle, Redis, Docker, Kubernetes, ArgoCD, Terraform, Jenkins, Git, AWS, Azure
AI & ML: TensorFlow, NLTK, Pandas, Numpy, OpenCV, Scikit-Learn, PowerBI, Tableau, Matplotlib, SnowFlake