

Jaydeep Patil

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EDUCATION

M. S. Computer Science, <i>Arizona State University, Ira A. Fulton School of Engineering, Tempe, AZ</i> Relevant Coursework: Distributed Database Systems, Data Visualisation, Statistical Machine Learning, Blockchain	Aug 2023 – May 2025 GPA: 3.80
B. E. Electronics & Computer Science, <i>Fr. Agnel Conceicao Rodrigues College of Engineering, Mumbai, India</i> Relevant Coursework: Data Structures, Web Development, AI & ML, Database Systems, OOP, NLP, Cloud Computing, IOT, Big Data	Aug 2019 – May 2023 GPA: 9.28

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Skyfarer Academy, San Diego CA <ul style="list-style-type: none">Developed full-stack web applications in a cross-functional team, streamlining UI for 200+ active users using React.js, Node.js, and MongoDBBuilt and integrated RESTful APIs to enhance user management and data retrieval, ensuring adherence to design principles.Strengthened collaborative development by contributing in Agile ceremonies and optimizing GitHub workflows.Wrote clean, maintainable code following team standards, and improved code quality through peer reviews.Streamlined deployments by facilitating CI/CD pipelines using GitHub Actions and Docker, improving deployment efficiency.	April 2025 – present
Adobe Student Ambassador, Arizona State University, Tempe, Arizona <ul style="list-style-type: none">Created and shared interactive digital content through Adobe Express, boosting student engagement and design thinkingOrganized and led campus workshops on Adobe tools, promoting the integration of visual design in technology projects in partnership with Adobe representatives	Aug 2024 – May 2025
Full Stack Developer, TEDx CRCE, Fr. Agnel Engineering College, Mumbai, India <ul style="list-style-type: none">Engineered a web application to optimize student council operations, improving task tracking and communication efficiency by 25%. Enhanced UI/UX through iterative design improvements, increasing user satisfaction by 25%.Facilitated seamless data flow and improved data management using React, Node.js, Express, and MongoDB.Conducted backend performance optimizations, improving API response times by 20%.	March 2022 – April 2023
Web Development Intern, Blended Learning, Pune, India <ul style="list-style-type: none">Developed and maintained responsive web applications with HTML, CSS, and JavaScript, improving accessibility and load performance.Integrated RESTful APIs for dynamic content updates, providing real-time access to critical information for users.Improved code quality and reduced UI inconsistencies by approximately 20% through code reviews, cross-browser debugging, and Git-based collaboration.	May 2021 – July 2021

PROJECTS

Distributed Event Logging System <ul style="list-style-type: none">Built a fault-tolerant, scalable logging system with Apache Kafka, Logstash, Elasticsearch, and Kibana for real-time analytics.Implemented data partitioning, replication, and Dead Letter Queues to ensure zero log loss and quick recovery. Improved throughput and reduced query latency compared to traditional ELK setups, enabling faster troubleshooting.	Aug 2024 – Dec 2025
FMWP (Finance Management Web Application) <ul style="list-style-type: none">Built a React-based finance app for expense tracking, budgeting, and visualizing spending patterns via interactive charts.Reduced load times by 30% with lazy loading and code splitting; integrated MongoDB and secure RESTful APIs for real-time data handling.Deployed on AWS and Netlify for scalable and reliable access; managed development using Agile methodologies.	May 2024 – Aug 2024
Retail Sales Forecasting WITH ai Driven insights <ul style="list-style-type: none">Designed a machine learning pipeline using Scikit-learn and TensorFlow for forecasting sales using historical, seasonal, and promotional data.Improved forecasting accuracy by 20% with LSTM-based models and optimized hyperparameters.Integrated a Tableau dashboard for visualizing sales trends, aiding inventory and marketing strategies.	Jan 2024 – April 2024
Customer Segmentation and Recommendation System <ul style="list-style-type: none">Implemented SQL-based schema and Python pipelines to process transactional and demographic data.Used K-Means clustering for RFM-based customer segmentation and built a collaborative filtering recommendation model, increasing engagement by 25%Queried and pre-processed data with Pandas and SQLAlchemy, integrating results into ML workflows.	Jan 2023 – April 2023

SKILLS

- Areas:** Data Structures, Algorithms, Web Development, Cloud Computing, Distributed Systems, Frontend, AI & ML
- Programming:** JavaScript, Python, Java, SQL, Git & GitHub, Postman, HTML, CSS, C++, CUDA, React, Next.js, php
- Infrastructure:** Amazon Web Services (AWS), Docker, Kubernetes, GitHub, Kafka, MongoDB, PostgreSQL, DynamoDB, Google Cloud Platform, Elastic Search, Web Sockets, MS Office.