Darpan Sakhala

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Education

Indiana University Bloomington - *United States* **August 2023 - May 2025**
Master of Science, Computer Science ***GPA: 3.6/4***
Coursework: *Applied Algorithm, Machine Learning, Computer Networks, Database Concepts.*

Savitribai Phule Pune University - *India* **Aug 2019 – June 2023**
Bachelors of Engineering, Computer Engineering ***GPA : 3.7/4***

Technical Skills

Programming Languages and Databases: Python, Java, C++, HTML, CSS, SQL, Typescript, Javascript.
Full Stack Dev: ReactJS, NodeJS, Angular, Django, Flask, MongoDB, PostgreSQL, MySQL, REST APIs.
DevOps & Cloud Technologies: Docker, Jenkins, Salesforce Marketing Cloud, Kubernetes, AWS, GCP, Azure.
Machine Learning: TensorFlow, PyTorch, Keras, XGBoost, Neural Network, Natural Language Processing (NLP), Large Language Model (LLM), NumPy, Pandas, Scikit Learn, Hadoop, Tableau, Matplotlib, PowerBI.
Project Management tools & Methodologies: Github, API Design, Asana, Jira, Agile, CI/CD, Distributed Systems, Scrum.

Work Experience

Software Engineer **June 2025 – Present**
Indiana University - Office of Enrollment | Go, Java, Python, AWS Lambda, Jenkins, REST APIs *Indiana, United States*
- Designing and developing student and notification microservices in Go and Java, building RESTful APIs and integrating AWS Lambda to reduce API latency by 35%.
- Implementing Python ETL pipelines to sync student data across systems, ensuring integrity and increasing processing efficiency by 50%, managing CI/CD pipelines using Jenkins, enabling 40% faster production rollouts.

Software Engineer Intern **July 2024 – May 2025**
Indiana University - Office of Enrollment | Java, SpringBoot, AWS Lambda, Docker, REST APIs *Indiana, United States*
- Reconstructed legacy Salesforce CRM applications into a microservices structure with Java and Spring Boot developing RESTful APIs that leverage AWS Lambda to trigger serverless functions and streamline data exchange.
- Deployed automated CI/CD pipelines and streamlined containerization using Docker with Git-based version control, resulting in a 15% reduction in infrastructure costs.
- Enhanced front-end performance by refining complex web tools with HTML, CSS, React and TypeScript which boosted user adoption and responsiveness by 20%.

Data Engineer Research Assistant **December 2024 – May 2025**
Indiana University Bloomington | Python, Django, MySQL, Hadoop, Tableau *Indiana, United States*
- Built scalable data pipelines with Python, Django, and Hadoop to ingest and analyze public comments.
- Produced Tableau dashboards visualizing sentiment trends with 92% classification accuracy using custom NLP workflows.

Software Developer Intern **May 2024 – July 2024**
Hyphenova | C++, Kafka, Redis, Jenkins, Git *California, United States*
- Optimized the influencer brand matching application by developing performance-critical C++ modules, leveraging profiling tools to identify and resolve bottlenecks and harnessing Kafka for real-time event streams, boosting engagement by 25%.
- Engineered a high-performance recommendation engine using C++, integrating Redis for rapid, in-memory data caching, which elevated backend service throughput by 30%.
- Automated deployment pipelines and containerized services using Jenkins and Git, reducing manual efforts by 40%.

Full Stack Developer Intern **May 2022 – December 2022**
RunwalSoft | Angular, React, Node.js, MongoDB, TypeScript *Pune, India*
- Launched a high-performance e-commerce platform for the Australian turf market, resulting in a 40% increase in online sales and a 25% market share gain within 6 months.
- Spearheaded a full-stack implementation using Angular, React, Node.js, and MongoDB, optimizing backend APIs and data workflows to boost revenue by 15% and reduce order fulfillment time by 25%.

Projects

QuantVision : AI Powered Financial Forecasting Platform |*Streamlit, Scikit-learn, NLP, Pandas, Matplotlib* **GitHub**
- Created a financial analysis tool that predicts stock movements with 62% accuracy using time series modeling and sentiment analysis (NLP), enabling investors to make data-driven decisions through real-time visual dashboards.

ChronoTalk : AI History Chatbot |*Python, TensorFlow, OpenAI, NLP, Flask, React.js* **GitHub**
- Crafted an AI-powered chatbot leveraging Python, TensorFlow and OpenAI GPT-3 alongside spaCy for NLP, with a Flask backend and React.js interface, increasing engagement by 40% and learning retention by 30%.

Epileptic Seizure Detection using CNN | *Python, CNN, Pandas, NumPy, TensorFlow, Keras, LSTM, Matplotlib* **GitHub**
- Developed a CNN driven method for epileptic seizure identification achieving over 90% accuracy, further enhanced by LSTM layers and thorough data visualization for critical clinical insights.