Darpan Sakhala

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Education

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

Savitribai Phule Pune University, Pune, 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, 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 Developer **July 2024 – Present**
Indiana University Bloomington | Java, Spring Boot, AWS Lambda, RESTful APIs, Docker, Git *Indiana, United States*

- **Revamped Salesforce CRM-based applications** by creating **RESTful APIs with Java (Spring Boot) and JSON**, decreasing data exchange latency by **25%** and boosting user adoption by **30%** through more efficient recruitment workflows.
- **Introduced AWS Lambda for serverless operations**, cutting infrastructure costs by **15%** while standardizing **Git-based version control** and **Docker containerization** to enhance scalability and streamline deployments.
- **Refined web-based tools with HTML, CSS, and React**, improving functionality and user experience by **20%** and elevating responsiveness for both internal and external users.

Data Engineer Research Assistant **December 2024 - Present**
Indiana University Bloomington | Python, Django, Tableau, MySQL *Indiana, United States*

- **Designed scalable data ingestion pipelines in Python (with Django)** to automate MySQL ETL processes for large-scale data scraping, accelerating throughput by **40%** and supporting advanced NLP use cases for policy engagement.
- **Created interactive dashboards in Tableau** to visualize multi-layer sentiment analysis, enabling stakeholders to identify trending insights with **92% classification accuracy** and reducing manual classification tasks by **35%**.

Software Developer Intern **May 2024 - July 2024**
Hyphenova | C++, MERN Stack, Kubernetes, Django *California, United States*

- **Developed new features for the influencer–brand matching engine** using Django, PostgreSQL, C++, and Kubernetes, elevating user engagement by **25%** and supporting high-traffic, event-driven workflows.
- **Conceived and deployed personalized recommendations in a MERN environment** (MongoDB, Express, React, Node.js), enhancing backend throughput by **30%**.
- **Automated data pipelines by orchestrating tasks with Docker and Git**, cutting manual operations by **40%** and improving release cadence.

Full Stack Developer Intern **May 2022 - December 2023**
RunwalSoft | HTML, CSS, JavaScript, React, MySQL *Maharashtra, India*

- **Created web-based applications using HTML, CSS, and JavaScript with React**, enabling cross-functional teams to collaborate more effectively and raising productivity by **20%**.
- **Deployed a fully featured e-commerce platform for the Australian market** using React, Node.js, and MySQL, boosting revenue by **15%** and expanding the client's market presence.
- **Accelerated customer order and sales management workflows with robust security protocols (OAuth)**, elevating user experience and reducing order processing time by **25%**.

Projects

Harmonify |*MERN Stack (MongoDB, Express.js, React.js, Node.js)*

- **Built a music-centric social platform with real-time track sharing** that lifted engagement by **40%** and improved performance by **30%** through optimized React components and backend APIs.

Epileptic Seizure Detection using CNN | *Python, CNN, Pandas, NumPy, TensorFlow, Keras, LSTM, Matplotlib*

- **Implemented 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.

NYC School Bus Delays Analysis |*SQL, Python, Airflow, AWS S3, PostgreSQL, Power BI, Excel*

- **Engineered an ETL pipeline for 600K+ NYC school bus delay records** using Python and Airflow, storing raw data in AWS S3, transforming it in PostgreSQL,and delivering insights via optimized Power BI dashboards all while reducing processing time by **45%**.