

# 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:** 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, 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 Developer Intern**

July 2024 – Present

Indiana University - Office of Enrollment | Java, GoLang, AWS Lambda, Docker, REST APIs

Indiana, United States

- Redefined legacy Salesforce CRM applications into a microservices structure with Java, GoLang and Spring Boot developing RESTful APIs that leverage AWS Lambda to trigger serverless functions and streamline data exchange.
- Devised 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, DynamoDB

Indiana, United States

- Built scalable data ingestion pipelines using Python and Django, integrating MySQL for structured relational storage and DynamoDB for high-throughput NoSQL access, efficiently managing large-scale public comment datasets.
- Employed Hadoop for batch processing of public comment data, enhancing industry classification and refining sentiment detection, and developed interactive Tableau dashboards to surface actionable insights with a 92% accuracy in sentiment analysis.

**Software Developer Intern**

May 2024 – July 2024

Hyphenova | C/C++, Kafka, MERN Stack, Jenkins, Git

California, United States

- Optimized the influencer brand matching application by developing performance-critical modules in C/C++ using RESTful services and harnessing Kafka to orchestrate real-time event streams boosting engagement by 25%.
- Constructed a tailored recommendation system with the MERN Stack (leveraging MongoDB for flexible data storage, Express for robust API endpoints, React for dynamic interfaces and Node.js for business logic), elevating backend throughput by 30%.
- Automated deployment pipelines and containerized services using Jenkins and Git, reducing manual efforts by 40% and accelerating release cadence.

**Full Stack Developer Intern**

May 2022 – December 2022

RunwalSoft | HTML5, CSS, JavaScript, React, TypeScript, MySQL, Node.js

Maharashtra, India

- Developed an interactive and dynamic web application for an Australian turf booking and sales platform using HTML5, CSS, JavaScript, React and TypeScript streamlining cross-team workflows and enhancing the user interface.
- Spearheaded the design, development, and deployment of a comprehensive e-commerce module with React, Node.js and MySQL which contributed to a 15% revenue boost and expanded market reach.
- Refined secure backend integrations and refined data processing workflows, reducing order fulfillment time by 25% and significantly elevating the overall customer experience.

## Projects

**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.

**SmartPayAPP: Digital Wallet & Money Transfer** | Next.js, Express.js, PostgreSQL, Tailwind CSS, TypeScript

[GitHub](#)

- Engineered a full-stack digital wallet and money transfer platform that enables users to add funds, execute instant payments, and view real-time transaction feedback; this solution improved transaction speed by 40% and reducing API response time by 35%.