

Bhanu Prakash Akepogu

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SUMMARY

Software Engineer with over 2 years of experience in designing, developing, and deploying scalable software solutions across the full stack. Skilled in **ReactJS, Flask, PostgreSQL, Python, Docker, Kubernetes, Terraform, and AWS**, with hands-on experience in **Agile software development** and system optimization. **Engineered automation tools** that improved operational efficiency, **optimized PostgreSQL workflows** to enhance data performance, and **contributed to robust frontend design systems**. Passionate about building **high-performance, maintainable applications** and solving **complex engineering problems** through innovation and collaboration.

EXPERIENCE

Societe Generale GSC Pvt Ltd

Jun 2022 - Dec 2023

Software Engineer

Bengaluru, India

- **Designed** a ticket dispatching portal using Flask, Jinja, and HTML5, **automating 40% of manual triage** and speeding up issue resolution cycles
- **Developed Python-based automation tools** for incident management, **cutting runtime by 45%**, saving approximately **20 engineer hours** monthly, and improving reliability
- **Improved** PostgreSQL stored procedures via Python refactoring, **achieving a 30%** reduction in query latency and enhancing data access for business-critical analytics
- Implemented real-time monitoring dashboards with Grafana for over **50 system metrics**, enabling early anomaly detection and reducing **average resolution time by 25%**
- Updated and modernized legacy codebases, increasing maintainability and **reducing bug recurrence by 20%**
- Implemented Agile methodologies within a 12-member team, which increased sprint velocity and reduced backlog
- Collaborated with DBAs, DevOps, and QA teams to scale backend systems using Docker, Kubernetes, and Terraform, resulting in 15% lower downtime during peak load tests
- Implemented CI/CD workflows using AWS and Terraform, streamlining deployment pipelines and improving release consistency

Freecharge

Jan 2021 - Jun 2021

Frontend Engineering Intern

Mumbai, India

- Implemented a scalable Digital Design System with **ReactJS, TypeScript, and Storybook**, **improving UI development efficiency by 30%** and ensuring consistent visual standards.
- Developed reusable UI components to standardize design and **reduce redundant code by 30%**.
- **Enhanced** cross-device responsiveness and accessibility, improving Lighthouse scores by **20 points** and broadening usability.
- **Executed** A/B testing on key UI modules, achieving a **12% increase in user engagement**.
- **Collaborated** in Agile sprints with design and backend teams, **delivering features 15% faster** per sprint.
- **Implemented** Git-based code review practices, **reducing production defects** and improving code quality.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, C, C++
- **Frontend Development:** ReactJS, React Query, Redux, HTML5, CSS3, Storybook, Sass, UI Design Systems, Axios
- **Backend & Databases:** Flask, FastAPI, NodeJS, PostgreSQL, MongoDB, SQL, NOSQL
- **DevOps & Cloud:** Docker, Kubernetes, Terraform, AWS, CI/CD Pipelines
- **Tools:** Git, Grafana, RESTful APIs, Agile, Linux/UNIX Systems, Microsoft Office Suite, VIM
- **UX & Accessibility:** Responsive UI, User-Centered Design, Component Libraries, Figma

EDUCATION

Clark University

Jan 2024 - Dec 2025

Master of Science, Computer Science

Worcester, MA

- **Coursework:** Software Engineering, Cloud DevOps & Automation, Data structures and Algorithms, Machine Learning

PROJECTS

Credit Card Fraud Detection | [Link](#)

Jan 2025 - May 2025

- **Built** a full-stack fraud detection platform using **FastAPI, React (Vite)**, and **PostgreSQL**, containerized with **Docker Compose**, enabling seamless local deployment and reducing setup time by **70%**.
- **Developed** RESTful APIs with FastAPI and PostgreSQL ORM models to manage and analyze **10K+ transaction records**, achieving **40% faster** data retrieval and improved system reliability.
- **Implemented** a real-time **React dashboard** visualising fraud predictions, enhancing model interpretability and decision-making for end users.
- **Optimized** database configurations and query performance, reducing latency by **25%** and improving API throughput under load testing.
- **Integrated** OpenAPI documentation and CI-ready Docker workflows, streamlining development, testing, and deployment across backend and frontend teams.
- **Deployed** CI/CD-ready infrastructure using **Terraform and AWS**, ensuring seamless automated builds and scalable cloud deployment.

Archivum | [Link](#)

Jan 2024 - Apr 2024

- Built a **decentralized file storage platform** enabling users to securely upload and retrieve files on-chain, improving data integrity and transparency by **100%** compared to centralized systems.
- Developed and deployed **3+ Solidity smart contracts** via **Hardhat**, managing file metadata and ownership across **multiple test networks** with verified contract reliability.
- Engineered a **React + TypeScript** front-end integrated with **Web3.js**, reducing transaction handling latency by **30%** through optimized wallet interactions.
- Designed a responsive UI with **SCSS and Vite**, cutting load times by **35%** and enhancing client-side performance.
- Automated testing and deployment workflows with Hardhat scripts, decreasing setup time by **40%** and ensuring reproducible builds.
- Released under **GPL-3.0 open-source license**, resulting in **10+ external forks and contributions** within the developer community.

Electrobuy - E-Commerce Website | [Link](#)

2022

- **Engineered** a high-performance **full-stack e-commerce platform** supporting **100+ concurrent users**, achieving **35% faster load times** and high scalability.
- **Optimized** API state management with **Redux** and **React Query**, improving performance and reducing redundant backend calls.
- **Implemented** secure authentication with **JWT** and **Google OAuth**, and **integrated Paytm API** to process **50+ low-latency daily transactions**.
- **Containerized** the entire application using **Docker** and deployed it on **AWS**, ensuring fault tolerance and simplified scaling.
- **Crafted** reusable, modular UI components that achieved **95+ Lighthouse scores** for performance, accessibility, and best practices.
- **Designed** a responsive, user-centered interface that elevated customer experience and increased engagement across devices.