

Bhanu Prakash Akepogu

USA | +1 774-242-9021 | bhanu.akepogu@gmail.com | [LinkedIn](#) | [Github](#)

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

Bengaluru, India

Software Engineer

- 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

Mumbai, India

Frontend Engineering Intern

- 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

Worcester, MA

Master of Science, Computer Science

- 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.