

Prahlad Narayan

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Education

Master of Science in Software Engineering Systems Northeastern University	3.8/4.0 Sept 2023 - Dec 2025
Bachelor of Engineering in Computer Science and Engineering Anna University	3.6/4.0 Aug 2019 – Apr 2023

Experience

Founderway.ai Sept 2024 – Dec 2024

Full-Stack Developer Co-op | *React, TypeScript, Node.js, Postgres, Java Spring Boot*

- Designed and shipped complex user workflows using React and TypeScript with centralized state management, building reusable UI components and integrating performant REST APIs supporting 1000+ concurrent users.
- Stabilized platform during critical scaling periods by diagnosing and resolving 58 production issues in 3 days, implementing fault-tolerant error handling, strengthening CI/CD pipelines and eliminating synchronization failures.
- Reduced UI latency by 30% render-cycle optimizations and ensuring compatibility across multiple platforms.

Ford Motor Company May 2022 – Jul 2022

IT Product Developer Intern | *Java, J2EE, Spring Boot, SQL, HQL*

- Redesigned distributed microservices architecture reducing cross-service latency by 20% through PostgreSQL query optimization, HQL refactoring, and Spring Boot data-access layer improvements.
- Accelerated real-time platform integration by extending Spring WebSocket modules for bidirectional communication, implementing message queue patterns and ensuring synchronization consistency across distributed systems.
- Strengthened data reliability and security by enforcing ACID transaction management, adding role-based access control (RBAC) and scalable object-oriented design patterns for long-term maintainability.

Zeus Desk Dec 2021 – Mar 2022

Web Developer Intern | *MERN, REST API, Figma*

- Optimized application performance by implementing lazy-loading strategies, compressing static assets and refactoring React rendering cycles
- Enhanced backend reliability by developing secure Express.js REST APIs with MongoDB schema validation using Mongoose, implementing centralized error-handling middleware with detailed logging for production stability.
- Improved user experience consistency by resolving cross-browser CSS incompatibilities, enforcing WCAG accessibility standards, and delivering adaptive layouts tested across 5+ device types and major browsers.

Projects

Geospatial Discovery Platform | *Next.js, TypeScript, Google Maps API, React, Figma*

- Built production-ready donation discovery platform with 500+ community locations featuring advanced geospatial search, proximity filtering, real-time map/list synchronization, and responsive UI optimized for mobile and desktop.

Community Volunteering Platform | *React, Node.js, SQL Server, T-SQL, Postman*

- Engineered full-stack platform connecting 200+ users with secure authentication, RESTful APIs, normalized SQL Server database with stored procedures ensuring ACID-compliant transactions for volunteer workflows.

Distributed Image Processing System | *Python, Dask, PyTorch, HPC Cluster, Jupyter*

- Architected a distributed computing pipeline achieving 10.68x speedup by orchestrating Dask workers, processing 10,000+ images with intelligent scheduling, retries and worker health monitoring for production ML inference.

Skills

Frontend: JavaScript (ES6+), TypeScript, React.js, Next.js, HTML5, CSS3, Tailwind CSS

Backend & API: Java, Spring Boot, Node.js, Express, FastAPI, RESTful APIs, WebSockets

Programming: Python, C/C++, SQL (PostgreSQL, SQL Server), NoSQL (MongoDB)

Distributed Systems: Docker, Dask, PyTorch, Microservices Architecture, HPC Clusters

Tools & Frameworks: Git, CI/CD Pipelines, Agile/Scrum, JUnit Testing, AWS

Awards & Certificates

Runner-up & Inspirational Award — Smart India Hackathon 2022

IIT Mumbai: Python & Java | HackerRank: Java, Python, SQL | Coursera: IBM Data Engineering, Google Python