

PRADNYAL GANDHI

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WORK EXPERIENCE

SHELFMARK

Pittsburgh, PA

Software Engineer

October 2023 – Present

- Architected and launched 2 production-grade platforms: a quality control web application using ML-based defect detection for manufactured goods and an IoT-driven asset tracking system for 600+ assets, reducing manual effort by 90%
- Integrated machine learning outputs and large image datasets into high-performance frontends using Next.js and Web sockets; built backend pipelines and RabbitMQ consumers with Azure serverless function app to process predictions, alerts, and live analytics
- Developed high-performance, scalable UIs using React, Next.js, and Tailwind CSS, to render live images and notifications with server-side rendering, API response caching, and lazy-loading, cutting load times by 40%
- Implemented CI/CD pipelines using Azure DevOps and GitHub Actions, automating builds, tests, and infrastructure provisioning with Terraform; slashed deployment time by 60% and reduced post-release bugs by 70% via robust Cypress and Playwright tests
- Built real-time monitoring and alerting pipelines using Grafana, PostgreSQL triggers, and Slack webhooks to surface live system anomalies and usage stats across platforms, cutting incident response time by 50%
- Collaborated cross-functionally with product and design teams to lead major releases; contributed to sprint planning, design reviews, and user testing sessions, increasing release velocity and product sales by 20%

COPART

Dallas, TX

UI Developer Intern

September 2022 - January 2023

- Refactored 4 high-traffic internal portals (10K+ vehicles/day) by migrating legacy class-based code to modern React (Hooks, ES6+), improving load speed by 30% and maintainability
- Implemented multilingual support using React, Redux-Saga, and Material UI for English and Canadian French; reduced translation errors by 45% through locale-based state management and dynamic content rendering
- Developed modular UI utilities to display geospatial distances and location-based pickup/drop-off interfaces, reducing load time by 15% through optimized data fetching and browser caching
- Participated in Agile sprints, collaborated closely with designers via Figma for feature validation, performed UI testing and accessibility checks, and delivered features with a focus on performance, responsiveness, and user feedback incorporation

WEALTH42

Bangalore, India

Product Engineer

July 2020 - November 2020

- Led full-stack development for a web-based wealth management MVP, creating responsive dashboards using React, Tailwind CSS, and Node.js; built landing pages and marketing funnels from Figma prototypes with pixel precision
- Developed robust data ingestion pipelines in Python to parse and normalize transaction data from 15+ Indian banks using bank scraper libraries; exposed this data via REST APIs using Django and Python
- Steered beta testing interviews and developed CMS tools for rapid content updates; automated Docker-based deploys and analyzed SEO and engagement metrics, leading to UX improvements

TECHNICAL SKILLS

- Programming Languages: JavaScript, TypeScript, Python, Node.js, Java, Swift
- Web Technologies: HTML5, CSS3, Tailwind CSS, Bootstrap, JSON, REST, GraphQL
- Database & Cloud: PostgreSQL, MySQL, SQL Server, MongoDB, AWS, Azure, Docker, Terraform
- Testing & Monitoring: Cypress, Playwright, Jest, Postman, Grafana, CloudWatch
- Frameworks & Tools: React, Next.js, Redux, Angular, Vue.js, Django, Flask, Spring Boot, NPM, Git, Figma, Jira

PROJECTS

WEB PLATFORM (AWS + TERRAFORM)

Boston, MA

Node.js Application build on Terraform and AWS Services

February 2023 – May 2023

- Architected a backend system in Node.js with PostgreSQL, deployed across multiple AWS services including EC2, RDS, S3, and Route 53, ensuring high availability and data durability
- Provisioned complete infrastructure using Terraform, defining modular IaC for VPCs, subnets, security groups, and IAM roles, enabling reproducible, environment-specific deployments
- Automated CI/CD workflows with GitHub Actions, Packer, and shell scripts to build custom AMIs, configure EC2 launch templates, and enable zero-downtime deployments behind load balancers
- Performed load testing using Artillery and JMeter, simulating 1000+ concurrent users and optimizing database queries, auto-scaling thresholds, and instance types to reduce response latency by 40%

EDUCATION

Northeastern University

Boston, MA

Master of Science in Information Systems

August 2023

Relevant Courses: Web Design and User Experience Engineering, Network Structure & Cloud Computing(DevOps)

University of Mumbai

Mumbai, India

Bachelor of Engineering in Information Technology

June 2019

Relevant Courses: Database Management Systems, Software Project Management, Data Structures and Algorithms