

PRADNYAL GANDHI

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EDUCATION

Northeastern University

Master of Science in Information Systems

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

Boston, MA

August 2023

University of Mumbai

Bachelor of Engineering in Information Technology

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

Mumbai, India

June 2019

WORK EXPERIENCE

SHELFMARK

Pittsburgh, PA

Software Engineer

October 2023 – Present

- Built 3 production-grade full-stack web applications with the first-of-its-kind machine learning and computer vision solution to solve inventory management, asset tracking, and quality control challenges, leveraging TypeScript, React, Postgres, GitHub and Azure
- Engineered a real-time defect monitoring system for film printing machines using Next.js, Node.js, and Azure. Integrated WebSockets, Web Workers, and RabbitMQ to stream live images and trigger alarms, improving defect detection accuracy by 90%
- Developed an asset tracking platform that manages 400+ assets across multiple locations. Developed interactive geospatial dashboards, SSO authentication with OAuth, and live notifications, enabling real-time tracking and improving asset recovery efficiency
- Optimized backend performance in Postgres, SQL, and Azure Serverless Apps, reducing response times by 40% and ensuring scalability for real-time asset tracking and enhancing system reliability across distributed services
- Automated CI/CD with Azure DevOps and GitHub Actions, reducing deployment time by 60% with automated builds, tests, and infrastructure provisioning. Built Cypress and Playwright test suites, cutting post-deployment bugs by 70%
- Drove product enhancements by improving UI/UX workflows, debugging performance issues, and refining key features based on user feedback, leading to higher engagement and platform stability

NORTHEASTERN UNIVERSITY

Boston, MA

Graduate Teaching Assistant – Smartphone based iOS Development, Agile Software Development

January 2023 – August 2023

- Mentored a class of 70+ students in iOS, and Agile development providing valuable insights on best practices of Software Engineering, fostering collaboration and teamwork, and offering personalized support to students with Swift, iOS and Agile principles
- Conducted tutoring sessions with students, crafted assignments in Swift and Swift UI to ensure understanding of topics including but not limited to frontend architecture, UX guidelines, API calls, databases and Agile principles of sprint planning, Scrum and backlogs

COPART

Dallas, TX

UI Developer Intern

September 2022 - January 2023

- Modernized 4 pivotal company portals to load 10,000+ vehicle data, reduced search time by 30% and replaced outdated class-based code with modern JavaScript features and React functional components with automated unit tests in Jest and Mocha
- Devised a User Interface feature for language translation with React, Redux-Saga, and Material UI; incorporated 10+ screens with locale storage, state management, dynamic data translations for English and Canadian French, and reduced translation errors by 45%
- Manufactured reusable components in React and Angular to construct distance estimator leveraging Google Maps API and real-time Geolocation views for pickup and drop-off by scrapping vehicle data to achieve 15% faster loading time

WEALTH42

Bangalore, India

Product Engineer

July 2020 - November 2020

- Led a team of full-stack developers to supervise & develop a web-based wealth tracking product in an early-stage fintech startup to create cross-browser web applications, landing pages and prototypes in Figma, and responsive dashboards with React and Node.js
- Programmed Python scripts to extract banking & transactional data of 15+ nationalized banks to create REST API endpoints, jQuery relational databases in SQL, regulate dataflow and structure data pipelines with Flask and Python

TECHNICAL SKILLS

- Programming Languages: JavaScript, TypeScript, Python, Node, SQL, Java, Swift
- Web Technologies: HTML5, CSS3, SCSS, SASS, Bootstrap, Webpack, Web Sockets, jQuery, WebRTC, ES6, JSON
- Database & Cloud: Postgres, AWS, Azure, MySQL, Docker, GraphQL, Mongo DB, Terraform
- Frameworks & Tools: React, Next, Redux, Vue, Django, Flask, Flutter, Spring Boot, Figma, Jira, Git

PROJECTS

WEBAPP

Boston, MA

Node.js Application build on Terraform and AWS Services

February 2023 – May 2023

- Hosted a scalable backend infrastructure in Node.js and Terraform on AWS, leveraging microservices such as Amazon S3, EC2, RDS, Route53 with server provisioning and management of AWS resources deploying Infrastructure-as-Code with Terraform
- Deployed a CI/CD pipeline with GitHub Actions, packer through bash scripts, added DNS routing with Route53 and SSL encryption
- Added custom IAM policies, load balancers to boot new EC2 instances and monitoring for errors and logs using Amazon CloudWatch