

Atharva Kamble

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EDUCATION

MS in Information Technology, Worcester Polytechnic Institute, Worcester, MA Aug 2023 - May 2025
Bachelor of Engineering in Computer Engineering, Pune University, India Aug 2019 - May 2023

CERTIFICATIONS

[GitHub Foundations](#) | [Tableau Desktop Specialist](#) | [AWS Certified Solutions Architect – Associate](#)

EXPERIENCE

Software Engineer, Humanitarians AI, USA Jun 2025 - Present

- Delivered low-latency, mission critical Node.js/Express REST APIs for ride-matching and pricing, achieving sub-200ms median response time through optimized PostgreSQL indexing and query design, ensuring scalable and reliable performance for 100+ daily transactions
- Automated KPI reporting for 3,000+ monthly transactions by designing a Python data pipeline in Pandas and SQL, creating machine learning-ready datasets and reducing analysis time by 80% (from 3 hours to 30 minutes)
- Developed an internal Next.js/TypeScript dashboard integrated with live REST APIs, improving UX and usability for 10+ cross functional team members and replacing manual spreadsheets with a clean real-time interface

Graduate Assistant, WPI Business School - Worcester, MA Oct 2023 - Oct 2024

- Collaborated with cross functional design and analytics teams to lead Google PageSpeed diagnostics, implementing fixes that improved load performance by 30% and elevated user experience by 20% across client websites
- Refined Wix sites with structured headings, alt text, and responsive layouts, improving accessibility, UX consistency, and SEO metrics, increasing session duration by 18% and reducing bounce rate by 12%

PROJECTS

HappyRobot: Real Time Logistics Tracking Platform [\[Live Demo\]](#) | Next.js, Supabase

- Built a real-time logistics tracker in Next.js and TypeScript using 4 Google Maps APIs, applying scalable component design and accessibility best practices; optimized UX and cut JavaScript payload by 22% through code-splitting and performance tuning
- Implemented a serverless architecture with Supabase authentication and Google OAuth, maintaining 220 ms average response time and ensuring mission critical reliability with versioned rollbacks and environment-scoped secrets

Fintastic: CI/CD for MERN Expense Tracker [\[Live Demo\]](#) | MERN, Github Actions

- Engineered a full-stack scalable MERN expense tracker with JWT-secured Express APIs and MongoDB persistence, supporting 100+ concurrent users with 150 ms average API latency and high availability on Vercel/Render
- Automated a Docker-based CI/CD pipeline with GitHub Actions, achieving an 80-second average commit-to-production cycle across 70+ deployments and validating builds through automated QA and load testing to ensure release reliability

Multi-Environment AWS Infrastructure Deployment with Terraform | HCL

- Orchestrated modular Terraform infrastructure for multi-environment deployments with S3 remote state and DynamoDB locking, reducing provisioning complexity by 66% and ensuring mission critical scalability across dev, staging, and production
- Designed Infrastructure as Code modules enabling rapid environment scaling and cost optimization via variable driven instance sizing, eliminating manual configuration errors and cutting deployment time from 47 minutes to 12 minutes

Serverless Web Application for Student Data Management Using AWS | AWS, Python

- Built scalable serverless architecture using AWS Lambda, API Gateway, and DynamoDB with CloudFront distribution, achieving sub-280 ms response times and high availability while reducing operational overhead by 74%
- Secured multi-user data with IAM roles, CORS, and HTTPS across API Gateway and CloudFront, maintaining 99% uptime and optimizing costs by 42% through pay-per-request pricing and streamlined resource utilization

SKILLS

Programming & Frameworks: Python 3, C++17, SQL, JavaScript (ES6+), TypeScript 5, Node.js 18, React.js 18, Next.js 15, Express.js 4, REST API, HTML5, CSS3

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, DynamoDB, CloudFront, AWS CLI), Docker 24, Terraform 1.8, Git, GitHub, GitHub Actions, CI/CD, System Design

Data & Databases: Pandas 2, NumPy 1.26, Scikit-learn 1.4, Seaborn 0.13, Matplotlib 3.9, Power BI, Tableau 2024, MySQL 8, PostgreSQL 15, MongoDB 7, DynamoDB

Tools & Platforms: Docker Compose, Postman, Visual Studio Code, Vercel, Render, MacOS, Windows, Linux

AI Tools & Coursework: Cursor, Claude, Claude Code, ChatGPT, Gemini, Database Management, System Design, Business Intelligence, Marketing Analytics, Cloud Computing, Machine Learning, Data Science, Big Data