

Ashish Anand Damale

adamale@asu.edu | [LinkedIn: Ashish Damale](#) | [Portfolio](#) | [GitHub](#) | [Devpost](#) | +1 602-802-9447

Education

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| Master of Science in Software Engineering Arizona State University, Tempe, AZ | GPA: 3.74/4.0 May 2026 |
| Bachelor of Engineering in Computer Engineering University of Mumbai, Mumbai, India | GPA: 3.78/4.0 May 2023 |

Technical Skills

Languages: TypeScript, JavaScript, Python, Java, Go, C++, C, C#, PHP, Solidity
Frontend: React, Next.js, Angular, Vue, React Native, Redux, Tailwind CSS, Three.js, HTML, CSS
Backend: Node.js, Express.js, REST APIs, GraphQL, Kafka, WebSockets, SSE
Databases: PostgreSQL, MongoDB, SQL, Neo4j
DevOps & Cloud: Docker, Kubernetes, AWS (EC2, S3, Lambda), Git, GitHub Actions, Linux
Monitoring & Testing: Prometheus, Grafana, Playwright, Cypress, Jest
Core: Object-Oriented Programming, Data Structures & Algorithms

Professional Experience

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| Software Engineer Intern, Ticketmaster | June 2025 – August 2025 |
| <ul style="list-style-type: none">Refactored legacy UI components using TypeScript and Next.js, resolving layout shifts to improve Core Web Vitals across mobile platforms.Migrated automated QA tests from Cypress to Playwright by working closely with QA engineers, improving coverage and reducing execution time by 35%.Created real-time Prometheus & Grafana dashboards used daily by the QA team, reducing the time required to identify and fix flaky tests by 50%. | |
| Full Stack Developer Intern, University of Mumbai | June 2021 – August 2021 |
| <ul style="list-style-type: none">Delivered a full-stack exam platform using React.js, Node.js, and Express.js, automating 90% of administrative workflows.Engineered PostgreSQL-backed REST APIs to migrate 1,000+ records, utilizing Jest for data integrity testing.Introduced stateless authentication using JWT and middleware to ensure secure, scalable access control. | |
| Python Developer Intern, Trivia Software | December 2020 – March 2021 |
| <ul style="list-style-type: none">Designed management system handling 1,000+ records with Python and SQLite3, reducing data entry time by 50% through streamlined workflows and batch processing capabilities.Built database layer using SQLite3 with parameterized queries and transaction management, preventing SQL injection vulnerabilities across 10+ CRUD operations.Collaborated in a cross-functional team of 5 devs, leveraging daily stand-ups and code reviews to optimize modules. | |

Project Experience

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| Therapy AI (Winner, DevLabs Hackathon) | |
| <ul style="list-style-type: none">Built AI therapy training application simulating realistic patient interactions for mental health professionals, using Next.js 15, TypeScript, and Google Gemini 2.5 Flash API with Docker containerization.Implemented real-time streaming architecture using Server-Sent Events (SSE) and Express.js, enabling live AI conversations with session persistence and multi-persona role-playing scenarios stored in Google Cloud Storage.Integrated crisis detection algorithms analyzing conversation sentiment and keywords to flag high-risk situations, with speech synthesis for immersive audio-based training sessions. | |
| PreMarket | |
| <ul style="list-style-type: none">Developed a predictive trend analytics platform using Next.js 16, React 19, and TypeScript analyzing 10+ data sources to forecast emerging market opportunities 3-5 days in advance, enabling early investment decisions with 70%+ accuracy.Designed responsive dashboard with Tailwind CSS v4 and localStorage-based watchlists, enabling users to track 100+ trends simultaneously with real-time probability updates and mobile-optimized card layouts.Optimized rendering performance using React 19 hooks (useMemo, useCallback), reducing re-renders by 60% and maintaining <100ms filter response times across 1000+ trend cards. | |
| Graph Data Pipeline with Neo4j, Docker & Kubernetes | |
| <ul style="list-style-type: none">Established a Dockerized Neo4j-Kafka pipeline on Kubernetes to process 7M+ taxi trips with 99% uptime and <2s latency.Automated Parquet-to-Neo4j ETL via Kafka Connect, cutting manual processing by 90%.Identified top 20 high-traffic zones using PageRank algorithm, enabling route optimization that could reduce driver idle time by 15% based on historical trip patterns. | |