Harsh Nitinkumar Chandak

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Education

Arizona State University, Ira A. Fulton Schools of Engineering Aug 2024 – May 2026
Master of Science in Computer Science – GPA: 4.00 / 4.00

Savitribai Phule Pune University Aug 2019 – May 2023
Bachelor of Technology – CGPA: 8.52 / 10.00

Technical Skills

Languages: JavaScript, TypeScript, Python, C++, SQL
Frameworks: Node.js, Express, Laravel, React, Next.js
Databases: PostgreSQL, MySQL, MongoDB, ORMs
DevOps & Tools: Docker, Git, Jira, AWS (EC2, S3, Lambda), CI/CD, Linux
Core Skills: REST APIs, Web Development, Data Visualization, System Design, Performance Optimization

Work Experience

Neuromonk Infotech Pvt Ltd Jan 2023 – Jun 2024
Backend Developer Pune, India

- Engineered backend for 20+ Projects and SaaS systems (ERP, CRM, LMS, e-commerce)
- Optimized backends for horizontal scalability, multi-tenancy; isolating clients and supporting growth
- Designed REST APIs (Node.js, Laravel); restructured auth/session logic to reduce client issues by 35%
- Tuned PostgreSQL/MySQL queries (indexes, joins, Redis) to improve data ops speed by 40%
- Developed full-stack ERP dashboards (MongoDB, React/Next.js) for real-time business KPIs
- Developed inventory, production, and sales modules for flagship ERP platform adopted by 70+ clients
- Coordinated cross-team efforts (design, product, QA) to deliver workflow-aligned features on schedule
- Mentored junior devs; improved PR quality and team velocity via structured reviews

ISOBEX LLP Jul 2021 – Aug 2021
Software Engineering Intern Pune, India

- Refactored slow SQL queries; cut report latency from 2.5s to almost 1.5s for legacy "Lead Generation" tool
- Replaced hard-coded joins by ORM models, improving data consistency and feature agility
- Participated in sprint planning, reviews, and pair coding with senior engineers
- Gained exposure to production-grade delivery cycles with industry standards

Projects

Mapping Accident Trends & Patterns: A Data-Driven Storytelling Arizona State University
D3.js, Node.js, JavaScript, GeoJSON, Express

- Processed 185K+ traffic incident records using Node.js, JavaScript, and Turf.js for spatial analysis
- Developed 6 interactive, D3.js visualizations to help uncover trends and anomalies in accident data
- Built a web application integrating real-time visual insights, earning 3rd place in a course-wide competition

Kafka + Neo4j Streaming Pipeline Arizona State University
Kafka, Neo4j, Kubernetes, Docker, Python, Apache Spark

- Built a real-time graph analytics pipeline using Kafka and Neo4j for processing dynamic user or event streams
- Containerized deployment using Docker on Minikube Kubernetes, simulating scalable microservices
- Implemented data modeling and flow optimization based on BFS/PageRank traversal strategies

Automated Warehouse Scenario, Answer Set Programming Arizona State University
ASP, Clingo, Python, Declarative Logic, Automation

- Modeled a grid-based warehouse planner in ASP with constraint-aware autonomous agents
- Engineered modular rule structure, frame axioms, and constraint satisfaction to ensure plan validity.
- Built a Python wrapper for dynamic horizon tuning and automated Clingo execution across benchmark instances