SAURABH CHAUHAN

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EDUCATION

Master of Science in Computer Science | University of Illinois Springfield |

Expected May 2026 | GPA: 3.8/4.0

Technical Coursework: Algorithms & Computation, Cloud Computing, Data Mining, Web Design, Deep Learning, Neural Networks

Bachelor of Engineering in Computer Engineering | Pune University, India

Graduated May 2021

TECHNICAL SKILLS

Languages: Python (asyncio, type hints, OOP), Java (Spring Boot, JVM optimization), SQL, JavaScript (ES6)

Backend: Django, Flask, FastAPI, Spring Boot, REST APIs, gRPC, WebSocket, Microservices, Apache API SIX

Databases: PostgreSQL, SQL Server, Oracle, SQLAlchemy, Redis (caching/message queues)

Cloud/DevOps: AWS (EC2, S3, Lambda), GCP (Compute Engine, Cloud Storage, Scheduler), Docker, CI/CD (Jenkins, GitLab CI, GitHub Actions), Prometheus, Grafana

PROFESSIONAL EXPERIENCE

Product Dossier Solutions Pvt Ltd | Pune, India

Software Engineer (Backend/AI) | Jun 2023 – Jul 2024

- Secured 11 AI microservices processing 110K+ daily requests by designing Apache API SIX gateway with Spring Boot, implementing JWT authentication, rate limiting (1000 req/min), and load balancing, reducing security vulnerabilities by 40%
- Built scalable document processing backend serving 10K+ users with 50ms query latency by architecting Python pipeline with LangChain, FAISS vector database, and Redis caching, achieving 95% accuracy across 5-6 enterprise clients
- Accelerated deployment velocity by 67% from 45 to 15 minutes by engineering Docker-based automation system with Apache Freemarker, supporting 50+ monthly deployments across development and production environments
- Reduced incident response time by 30% by implementing Prometheus and Grafana monitoring dashboards tracking API latency (p95, p99), error rates, and throughput for real-time debugging
- Led cross-functional team of 6 engineers conducting 60+ code reviews monthly and participating in weekly architecture discussions with senior leadership, establishing Python coding standards (OOP, logging, testing) organization-wide

Dasha Krit Technology Pvt Ltd | Pune, India

Software Engineer | Apr 2021 – Apr 2023

- Architected Django-based multi-tenant SAAS platform from v0 to v1.1 supporting 50+ concurrent enterprise users by designing custom authentication, RBAC (6 user roles), and FSM workflows with 8-10 modular features
- Implemented secure multi-tenancy architecture with tenant-level data isolation by designing PostgreSQL schema with row-level security and dynamic routing, ensuring zero data leakage across 10+ enterprise clients
- Enabled real-time stock market visualization for 100+ active traders by engineering WebSocket data pipeline with SQLAlchemy processing 1000+ price updates/minute and integrating Apache Superset dashboards
- Achieved 100% test coverage of v1.1 features by developing data-driven test automation framework with 100+ Robot Framework test cases, reducing regression testing time by 75%
- Delivered 20+ features across 8 quarterly sprints by serving as technical lead in 2-person team, managing API design, database modeling, and production deployments

University of Illinois Springfield | Springfield, IL

Website Development Intern | Apr 2025 – Present

- Improved mobile accessibility for 5,000+ prospective students by developing WCAG 2.1-AA compliant web components using Drupal CMS, Twig templates, and Bootstrap for College of Health, Science & Technology websites
- Optimized faculty directory REST API performance by 95% to <150ms response time by implementing Redis caching and query optimization, serving 50+ profiles with instant filtered search
- Building OpenAI-powered admissions chatbot handling 200+ FAQ queries with 90% answer accuracy by integrating persistent session management, token-limited API calls, and real-time content search with direct page linking

TECHNICAL PROJECTS

Restaurant POS Management System | Software Engineering Capstone

- Built full-stack restaurant management system handling 50+ concurrent orders by architecting Django application with custom authentication, RBAC (6 user roles), 7 modular apps, and 10+ interconnected database models (~2K lines of code)
- Reduced order processing time by 40% by implementing real-time kitchen order updates via WebSocket and deploying to university Windows server with Nginx reverse proxy

Invoice IQ - Automated Document Processing | GitHub

- Achieved 95% accuracy extracting 8 key invoice entities by building end-to-end Flask REST API with GPU-accelerated OCR, custom NER model, entity validation, and structured JSON responses
- Reduced manual invoice processing time by 90% by training custom spaCy transformer model on 200+ annotated invoices, demonstrating production-ready ML deployment capabilities

Neurofinity - AI Mind Map Generator | GitHub | 4th Place, UIS Hackathon 2025

- Reduced note-taking time by 80% for 30+ minute lectures by building Streamlit web application with Whisper API transcription, Hugging Face Transformers NLP pipeline, and Graphviz visualization supporting dual input modes (file upload/live recording)

CERTIFICATIONS

AWS Machine Learning Essentials (LinkedIn Learning, Nov 2025) | AWS Essentials (LinkedIn Learning, Jun 2024)