

## SKILLS

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**Languages:** Python, JavaScript, Java, C++, SQL

**Backend:** FastAPI, Flask, REST APIs, gRPC, Microservices, Distributed systems

**Data & Cloud:** PostgreSQL, MySQL, MongoDB, Docker, GCP, CI/CD

**AI/ML:** AI Agents, Multi-Agent systems, LLM APIs (OpenAI, Gemini), Prompt Engineering

## WORK EXPERIENCE

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### AI Engineer, Longevity InTime

*Freelance*

- Built an AI multi-agent platform for autonomous drug discovery, orchestrating 25+ specialized agents to analyze 50,000+ clinical trials and identify candidate therapeutics.
- Reduced LLM operational costs by 80% through intelligent caching with 800+ cache hits while maintaining response quality in real-time inference.
- Created clinical trial prediction system, improving success probability estimates by 40% over baseline for pharmaceutical investment decisions across multiple therapeutic areas.
- Implemented RAG-based knowledge system with 1,400+ entries, reducing LLM hallucinations by 60%+ through evidence-based retrieval in production.

### AI Software Engineer, Syracuse University

*Aug 2025 – Mar 2026*

- Engineered FastAPI backend for multi-agent AI orchestration, coordinating 4 specialized reasoning agents with asynchronous scheduling to support 500+ sessions at 99.9% uptime.
- Built real-time streaming API using SSE delivering token-level AI responses with sub-100ms latency and 50 tokens/sec throughput for 20+ concurrent users.
- Designed multi-stage reasoning framework with progressive depth prompting across 4 rounds (generation, critique, synthesis, debate), improving structured problem-solving for 100+ AI responses.
- Built dynamic agent configuration system with CRUD APIs for custom AI personas, supporting 150+ stored configurations and reusable templates.

### Software Engineering Intern, Sparks Foundation

*Jul 2024 – Aug 2024*

- Developed RESTful APIs using FastAPI and Docker, processing 181,000+ records with 45ms response time for 500+ concurrent requests.
- Created responsive dashboard with Plotly showing real-time historical trends across 12 global regions, making complex security data accessible to non-technical stakeholders.
- Implemented CI/CD pipeline using GitHub Actions with automated regression testing and containerization, reducing deployment time by 85% and ensuring 99.9% uptime.
- Optimized data processing pipeline using Pandas, reducing memory usage by 60% through efficient data typing while handling 135+ features.

### Data Science Intern, CodeClause

*Jun 2024 – Jul 2024*

- Built AI-powered data analysis studio using Streamlit with K-Means, DBSCAN, and hierarchical clustering, enabling pattern discovery across 112 curated datasets in Finance, Healthcare, Sports, and Demographics domains.
- Developed automated EDA pipeline with descriptive statistics, missing value detection, and PCA visualization, cutting data assessment time by 90% for high-dimensional datasets.
- Constructed data cleaning pipeline auto-detecting inconsistent arithmetic formats and performing mean imputation, ensuring 99% data integrity for downstream modeling.

## PROJECTS

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### Zero-Click Multimodal AI Research Assistant

*GitHub*

- Eliminated manual copy-paste workflows for daily tasks by developing transparent AI desktop assistant using Electron and React with real-time clipboard monitoring, delivering Gemini-powered summarization and 10+ global hotkeys.
- Created intelligent knowledge retention system with auto-categorization, date filtering, and bulk export, reducing manual organization time by 80%.

### Workday Skills Autofiller Chrome Extension

*GitHub*

- Built Chrome extension automating Workday skills input with smart resume parsing and job match scanning, reducing application time by 80% across 100+ job submissions.
- Engineered browser automation with gap analysis and multiple profile management, eliminating manual data entry through intelligent dropdown selection and keyboard shortcuts.

## EDUCATION

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**Syracuse University**, Syracuse, NY

*Master of Science in Computer Science – GPA: 3.6/4*

*May 2025*

**University of Mumbai**, Mumbai, India

*Bachelor of Engineering in Computer Engineering – GPA: 9.15/10*

*Aug 2023*