Aryan Sadvelkar

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EDUCATION

Master of Science in Computer Science, Syracuse University   **Aug 2024 – May 2026**
Coursework: Introduction to AI | Operating System | Computer Architecture | Algorithms | CGPA – 3.75

Bachelor of Engineering in Computer Science, University of Mumbai   **Aug 2020 – May 2024**
Honors: Artificial Intelligence & Machine Learning   CGPA – 3.62
Coursework: Software Engineering | Database Management | Software Testing | Data Science |

PROFESSIONAL EXPERIENCE

Software Developer Intern | iConsult Collaborative, Syracuse University   Oct 2025 – Present
- Designed, implemented, and owned end-to-end product features for a production SaaS platform
- Built scalable backend services and RESTful APIs using Node.js and Express in a multi-tenant architecture
- Applied object-oriented design, data structures, and algorithmic thinking to backend services
- Implemented JWT-based authentication and RBAC, improving system security and access isolation
- Integrated Stripe subscriptions and webhooks, improving reliability and automating billing workflows
- Containerized services using Docker, supporting CI/CD pipelines and repeatable deployments
- Participated in code reviews, refactoring, and design discussions, improving code quality and maintainability
- Collaborated with cross-functional teams (engineering, product, design) in an agile environment
- Contributed to **operational excellence** through debugging, monitoring, and resolving production issues

TECHNICAL TRAINING

Full Stack Development Training | ACMEGRADE   Jan2023 – Feb 2023
- Built a full-stack e-commerce platform using React, Node.js, PHP, and MySQL, optimizing frontend rendering to reduce load time by 30%
- Developed REST APIs and optimized SQL queries, reducing average response latency by 200ms
- Implemented iterative feature improvements based on mentor-led usability testing across multiple user flows

TECHNICAL SKILLS

- **Languages**   : Python, Rust, JavaScript, Typescript, SQL
- **Frontend**   : HTML5, CSS3, React
- **Backend**   : Node.js, Express.js, REST APIs, Authentication, Webhooks
- **Databases**   : PostgreSQL, MySQL, MongoDB
- **Systems & OS**   : Docker, Linux (Ubuntu), CI/CD, Vercel, Cloud
- **AI & ML**   : PyTorch, TensorFlow, Scikit-learn, NLP, OCR, Computer Vision.
- **Tools**   : Git, GitHub, Postman, Unit Testing.
- **SWE Practices**   : Data Structures, Object-Oriented Design, SDLC, Code Reviews, Agile/Scrum

PROJECTS

"Nutrient Analysis using AI Models"
- Designed an end-to-end AI pipeline integrating EasyOCR (CNN + BiLSTM) for robust text extraction from complex food-label images
- Evaluated GPT-4o and Llama-3.2 models; deployed Llama-3.2-1B-Instruct for cost-efficient local inference
- Engineered structured LLM parsing workflows to convert noisy OCR output into validated JSON schemas
- Applied prompt engineering and dietary constraint conditioning to generate personalized nutrition insights
- Built modular pipeline in PyTorch + Transformers supporting scalable AI-driven analysis

"Predicting the Golden Hour for Social Media Engagement"
- Built data pipelines processing 400K+ records
- Applied algorithmic analysis and feature engineering to improve prediction accuracy by 12–18%
- Transformed raw logs into structured signals, reducing analysis time by 60%
- Experience relevant to ranking, signal processing, and large-scale data systems

"Apartments for Students"
- Built full-stack features using React, Node.js, Express, MongoDB
- Implemented real-time filtering, API integrations, and optimized database queries
- Debugged frontend and backend issues through testing and peer code reviews

PUBLICATIONS

Revolutionizing Student Accommodation: AMERN-Based Rental System for Seamless Property Management
International Journal for Multidisciplinary Research, 2024