

Atharva Wadekar

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EDUCATION

University at Buffalo, The State University Of New York Masters of Science in Computer Science	August 2024-Dec 2025 (GPA 3.9/4.0)
• Courses: Data Structures, Algorithm Design, Object Oriented Design, Complexity Analysis, Deep Learning	

Veermata Jijabai Technological Institute, University of Mumbai, India Bachelor of Technology in Electronics and Telecommunication	August 2018-July 2022 (GPA 8.30/10)
• Courses: Python Programming, Linux, Design Patterns, Machine Learning, Digital Signal Processing	

PROFESSIONAL EXPERIENCE

Filmic Technologies, Buffalo, NY AI Engineer Intern (via CSE 611)	August 2024-Present
• Automated reel inspection using a Snakemake pipeline, cutting human review time by 80% per reel. • Engineered PyTorch models for frame and sprocket-hole detection, achieving 94% accuracy and facilitating more precise defect localization for downstream restoration and triage processes, improving efficiency. • Built a secure Node.js/Express backend and a React/TypeScript dashboard that eliminated CLI-based review and increased archivist throughput by 60% through faster filtering, browsing, and inspection of reel reports.	

SportZilla, Pune, India Full Stack Software Engineer	October 2023-August 2024
• Integrated scalable payment processing module into event application enabling seamless handling of add-on items and automated sales reporting, reducing accountants' workload by 70% and boosting sales by 40%. • Developed and deployed Bib Expo Management Software streamlining participant check-ins, reducing wait times by 60%. • Automated participant e-certificate generation by developing a graphical tool for dynamic variable placement on templates, reducing creation time by 95% and increasing user satisfaction by 60%.	

NCDEX E-Markets, Mumbai, India Software Engineer	July 2022-September 2023
• Architected cost-efficient AWS infrastructure (EC2, RDS, S3/Glacier), lowering cloud expenses by 35% and boosting profitability through optimized resource provisioning and secure system design. • Built an automated error detection and reporting pipeline that cut issue resolution time from 90 to 7 minutes by sending real time alerts to the right teams, earning a Spot Award for impact. • Built a self-service campaign dashboard using the Brevo API, increasing customer outreach speed by 300% with analytics.	

PROJECTS

FrameFindr: Event Photo Search Platform MySQL, REST API, Google Cloud	
• Built full-stack photo discovery platform with React and Node.js, integrating Google Cloud Vision OCR and AWS Rekognition face matching to enable dual-search functionality (bib number or facial recognition), reducing photo retrieval time by 98% across 10+ marathon events with 3000+ images each. • Architected MySQL database with async background job processing for OCR and face indexing, reducing query latency by 40% and enabling fast deployments via CI/CD automation, supporting concurrent searches for 100+ users. • Developed and published a React Native application on Google Playstore with all website features achieving 10+ downloads.	

Application Tracker Google OAuth, Google Sheets API	
• Developed a responsive job application management tool that reduced manual tracking time by 60% for 10+ pilot users through automated form entry, centralized records, and instant updates along with Google OAuth login system. • Implemented a serverless backend using the Google Sheets API for reliable cloud-based CRUD operations, delivering seamless, cross-device data persistence validated across multiple user sessions.	

Agentic Resume Search System N8N, MCP, Ollama API, Qdrant	
• Developed an AI-powered resume search platform using N8N, and Qdrant vector database, enabling instant semantic search across thousands of candidate profiles. • Integrated Ollama LLM embeddings for advanced skill and experience extraction, boosting matching accuracy by 40%. • Implemented Retrieval-Augmented Generation (RAG) workflows, allowing recruiters to query candidate data via natural language chat, cutting search time from minutes to seconds.	

TECHNICAL SKILLS

• Skills: Python, C++, C#, Java, HTML, CSS, JavaScript, TypeScript, SQL, NoSQL, Vector Database, REST APIs, MCP Server, OOP, .NET, Node.js, PyTorch, TensorFlow, Agile Methodology, Next.js, Docker, Kubernetes, Prompt Engineering	
• Tools: React, Angular, Vue, React Native, AWS, Azure, GCP, Microsoft SQL Server, PostgreSQL, MySQL, MongoDB, Linux, Visual Studio, Excel, N8N, Ollama, Qdrant Vector Database, LLM Orchestration, Grafana, Jira, AWS Rekognition	

ACHIEVEMENTS

• Runner Up in “AI for Good Hackathon” (2025), hosted by UB Startup and Innovation Collaboratory, University at Buffalo
• AWS Certified Cloud Practitioner
• Second Runner-Up at the CSE Demo Day (2025) for “Filmic Inspection Report,” organized by the University at Buffalo.