Atharva Wadekar

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EDUCATION

University at Buffalo, The State University Of New York **August 2024-Dec 2025**
Masters of Science in Computer Science **(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 **August 2018-July 2022**
Bachelor of Technology in Electronics and Telecommunication **(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.

ACADEMIC PROJECTS

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.
- Integrated Google Identity Services (OAuth) to ensure secure, passwordless login eliminating credential exposure risks.
- 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.

FrameFindr: Event Photo Search Platform | *MySQL, REST API, Google Cloud*
- Deployed full-stack web application with React and Node using Google Cloud Vision API for OCR processing, reducing photo tagging time by 98%, with CI/CD automation that reduced deployment time by 93% with zero downtime
- Designed normalized MySQL database and async processing pipeline, reducing query latency by 40% and enabling smooth, low-latency photo-to-bib mapping for end users, currently serving 10+ marathon events.

SQL-Based Relational Database for Movie Data Optimization | *PostgreSQL, SQL, Power BI*
- Optimized database performance using stored procedures, triggers, and targeted indexing, reducing heavy JOIN query execution from 8s to 5.5s (30% faster).
- Built an interactive Power BI dashboard with 6+ visualizations for movie trends, genres, and ratings, enabling faster insights and reducing manual analysis time by 50%.

TECHNICAL SKILLS

- **Skills:** Python, C++, C#, Java, HTML, CSS, JavaScript, TypeScript, SQL, NoSQL, REST APIs, OOP, .NET, Node.js, PyTorch, TensorFlow, Agile Methodology, Next.js, Docker, Kubernetes, Hadoop, API Development, STL
- **Tools:** ReactJS, Angular, Vue, AWS, Azure, GCP, Spark, Microsoft SQL Server, PostgreSQL, MySQL, MongoDB, Jenkins, Linux, Visual Studio, Excel, Spring Boot, JQuery, AWS Lambda, API Gateway, Elasticsearch

ACHIEVEMENTS

- Runner Up in "AI for Good Hackathon" (2025),hosted by UB Startup and Innovation Collaboratory,University at Buffalo
- AWS Certified Cloud Practitioner
- Solved 600+ Data Structures and Algorithms using C++ and STL (Standard Template Library)
- Second Runner-Up at the CSE Demo Day (2025) for "Filmic Inspection Report," organized by the University at Buffalo.