



# Atharva Vaishnav

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## PROFESSIONAL SUMMARY

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Computer Science graduate with experience spanning software development, enterprise systems, SAP administration, AI/ML projects, and technical support. Skilled in building scalable applications, supporting enterprise environments, and delivering data-driven solutions using Java, Python, PHP, JavaScript, SQL, and cloud technologies. Experienced in system administration, automation, troubleshooting, and cross-functional collaboration with a strong interest in software engineering, intelligent systems, and emerging technologies.

## EDUCATION

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| <b>University of Wisconsin Milwaukee,</b><br><i>Master's of Science in Computer Science</i>                | Sep 2024 – May 2026<br>Milwaukee, United States |
| <b>Modern College of Arts, Commerce and Science,</b><br><i>Master's of Science in Computer Application</i> | Aug 2021 – Jul 2023   Pune, India               |
| <b>Modern College of Arts, Science and Commerce,</b><br><i>Bachelor's of Science in Computer Science</i>   | Jun 2019 – May 2021   Pune, India               |

## PROFESSIONAL EXPERIENCE

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| <b>University of Wisconsin Milwaukee,</b><br><i>IT Support Technician</i> | Feb 2025 – May 2026<br>Milwaukee, United States |
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- Diagnosed and resolved technical issues for Windows and macOS systems, maintaining high performance standards for faculty and staff.
  - Analyzed and troubleshooted a range of technical problems involving hardware, software, network connectivity, and account management to enhance system performance.
  - Facilitated user account management and group policy enforcement within Active Directory to enhance system security and user access.
  - Executed device provisioning configuration and management tasks using Microsoft Endpoint Configuration Manager (SCCM) to ensure seamless deployment.
  - Cultivated strong communication practices aimed at delivering exceptional customer service and maximizing user satisfaction.
  - Outlined and recorded comprehensive issue management strategies to ensure efficient troubleshooting and reliable service operations.

**LTI Mindtree**, SAP BASIS Consultant

Jun 2023 – May 2024 | Pune, India

- Managed multiple SAP landscapes (Oracle, HANA, IXOS, PLM) ensuring high availability and optimal performance.
- Handled ServiceNow SAP tickets (P1–P4), meeting SLA requirements through strong analytical and problem-solving skills.
- Performed system installations, configurations, upgrades, and patch validations, maintaining operational integrity.
- Conducted regular health checks and performance tuning to sustain service effectiveness.
- Developed automation scripts and internal web tools to streamline SAP performance checks and monitoring.
- Created web-based documentation and portals for managing system configurations using SharePoint.
- Integrated third-party web services with SAP systems to enhance usability and efficiency.
- Assisted in web development tasks for internal SAP portals, improving accessibility and workflow.
- Communicated effectively across teams, handling multiple inquiries simultaneously while maintaining service quality.

## PROJECTS

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**Scam Magnifier – Fraudulent E-commerce Detection** [↗](#),  
(*Reproduction Study*), Course Project

Aug 2025 – Dec 2025  
Milwaukee, United States

- Reproduced core modules of the USENIX Security 2022 paper to build a pipeline for scam website detection using opensource tools, resulting in automated data collection and site classification with 80% accuracy.
- Technologies: Python, Selenium, Docker, MongoDB

**Clinical Report Similarity** [↗](#)

Mar 2025 – Apr 2025  
Milwaukee, United States

- Developed a text-based retrieval system for identifying similar clinical notes using NLP techniques resulting in improved clinical note search efficiency and interpretability using embedding-based similarity scores
- Technologies: Python, TF-IDF, BM25, Clinical-BERT, PCA/t-SNE, Matplotlib, NumPy, PyTorch.

**Retail Supply Chain Analytics Dashboard** [↗](#)

Nov 2025 – Dec 2025  
Milwaukee, United States

- Developed a demand forecasting and analytics dashboard to analyze retail sales trends and simulate supply chain risk. Achieved 90.5% forecast accuracy and implemented interactive KPIs using Power BI.
- Technologies: Python, Prophet, Power BI, React

**GPU vs CPU Deep Learning Benchmark Suite** [↗](#)

Jan 2026 – Feb 2026  
Milwaukee, United States

- Built a GPU-accelerated deep learning benchmarking system using PyTorch and CUDA, achieving up to 9× training speedup and approx. 7945 images/sec throughput on CIFAR-10 using SimpleCNN and ResNet18.
- Applied mixed precision (FP16) with CUDA AMP to optimize performance and reduce GPU memory usage while analyzing tradeoffs between accuracy, latency, and throughput.

- Technologies: Python, PyTorch, CUDA, GPU Acceleration, Mixed Precision (FP16), Pandas, Matplotlib

### Custom Memory Allocator [🔗](#)

Jan 2026 – Mar 2026

- Built a custom memory allocator in C to simulate dynamic memory allocation and deallocation operations
- Implemented memory block management and fragmentation handling mechanisms to improve allocation efficiency and resource utilization
- Applied low-level systems programming concepts to design and optimize memory management functionality
- Technologies: C, Memory Management, Data Structures, Systems Programming

### AI-Enhanced Instructional Video Assistant [🔗](#)

Jan 2025 – Apr 2025

Milwaukee, United States

- Designed and developed an AI-driven system to make instructional videos easier to follow through transcript analysis and intelligent content segmentation
- Applied Natural Language Processing techniques to extract key concepts, generate structured summaries, and improve content discoverability
- Automated content organization and topic identification workflows to enhance learning efficiency and user experience
- Technologies: Python, NLP, Machine Learning, Content Analysis, Text Processing

## SKILLS

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- **Programming Languages:** Java, Python, C++, PHP, JavaScript, HTML5, CSS3
- **Frameworks & Technologies:** React.js, Django, Flask, FastAPI, REST APIs, Full-Stack Development
- **Databases:** MySQL, PostgreSQL, MongoDB, SQL, Database Design, Query Optimization, RDBMS
- **AI/ML & Data Science:** PyTorch, Scikit-learn, Pandas, NumPy, SciPy, Hugging Face, NLP, Machine Learning
- **Enterprise & IT Systems:** SAP BASIS Administration, Active Directory, SCCM/MECM, Microsoft 365, System Administration, Technical Support, Endpoint Management
- **Cloud & DevOps:** Azure, Google Cloud Platform (GCP), Cloudflare, Docker, Git, CI/CD Fundamentals
- **Tools & Platforms:** GitHub, Visual Studio Code, Postman, Jupyter Notebook, Linux, Windows
- **Core Competencies:** Software Engineering, Full-Stack Development, Enterprise Systems Support, Troubleshooting, Automation, System Monitoring, Performance Optimization, Cross-Functional Collaboration

## CERTIFICATES

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- **ServiceNow Best Service Delivery** Recognized for enhancing service delivery with ServiceNow Predictive Intelligence (Feb 20, 2023).
- **Python for Beginners** Completed a foundational Python course through Yorbit.
- **Generative AI: A Primer for Beginners** Certified in Generative AI basics through Yorbit.

## **VOLUNTEER**

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**Volunteer, LTIMindtree**

Nov 2021 – Nov 2021 | Pune, India

- Conducted online sessions via Microsoft Teams to educate differently abled children about corporate job opportunities and career choices, developing engaging content to inspire them based on their skills and interests.

## **AWARDS**

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**GoMx BU of the Year Certificate, LTIMindtree**

Feb 2023 | Pune, India

Awarded for the year 2022 for excellent ownership, dedication, and trust