# Shaurya Parshad

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## EDUCATION

**Master of Applied Computing** Jan 2025 – Present
University of Windsor, Windsor, Ontario

- The final semester requires a 4- or 8-month internship starting in January 2026.

## WORK EXPERIENCE

**Software Engineer Intern** Sep 2023 – Mar 2024
Veenus Mind Media, Amritsar, Punjab, India

- Implemented full-stack solutions using Java Spring Boot backend and React-TypeScript frontend, improving system performance by 30%.
- Participated in Agile stand-ups and managed Jira tickets, contributing to client projects with production deployments.
- Engaged in code reviews providing constructive feedback, learning best practices from senior developers and mentors.

## ACADEMIC PROJECTS

**Wellbeing — AI Recommendations System** Jan 2025 – Apr 2025
**Technology Stack:** Python, React, Django, FastAPI, PostgreSQL, Docker

- Created HIPAA-compliant AI recommendation engine to address lack of accessible medical guidance, achieving 80% accuracy in symptom to medicine matching.
- Deployed microservices with FastAPI & Docker, integrating role-based access & secure REST APIs.

**Personal Portfolio Website** July 2025 – Aug 2025
**Technology Stack:** ReactJS, TypeScript, CSS3, JavaScript, Git, CI/CD

- Optimized site performance to improve user experience and SEO rankings, refactoring React components and CSS3 to achieve 100% Lighthouse score across all metrics.
- Automated testing & CI/CD pipelines with GitHub Actions, ensuring scalable, maintainable deployments.

**Microloan Fraud Detection — Analytics System** May 2025 – Aug 2025
**Technology Stack:** Python, Java, Apache Airflow, Docker, PostgreSQL, AWS

- Built machine learning models to accurately identify fraudulent loan applications, processing 11M+ records with XGBoost & ensemble methods, achieving 96% ROC-AUC and flagging high-risk cases 40% faster.
- Orchestrated data pipelines with Airflow & AWS, enabling scalable fraud detection workflows.

**Distributed File System — Multi-Server Architecture** May 2025 – Aug 2025
**Technology Stack:** C, POSIX Threads, IPv4 Sockets, Linux, Bash

- Devised a fault tolerant file system to eliminate single point failures with 99.9% uptime through C sockets & POSIX threading.
- Engineered server health monitoring in Bash, maintaining near-zero downtime during failures.

**3D Reconstruction from Stereo Vision** May 2025 – Aug 2025
**Technology Stack:** Python, OpenCV, StereoSGBM, NumPy, Plotly, Google Colab

- Constructed cost-effective 3D depth sensing solution to eliminate expensive LiDAR hardware dependency, reconstructing 150k+ RGB-textured 3D points with 95% depth coverage and <0.5 pixel accuracy using stereo vision pipeline with StereoSGBM matching.
- Extracted 3D spatial data from camera images to achieve real-time reconstruction at 10 FPS, comparable to specialized hardware but at a fraction of the cost, eliminating the need for depth sensors.

## TECHNICAL CONTRIBUTIONS

**Seminar Presentation – Computer Vision – University of Windsor** Aug 2025

- Articulated CNN & Transformers framework to 30+ peers, detailing advanced algorithm methodologies.

## TECHNICAL SKILLS

- **Programming Languages:** Python, C#, C++, Java, Scala, JavaScript, TypeScript, SQL
- **Frontend Frameworks:** React, Angular, NodeJS, Bootstrap, Tailwind CSS
- **Backend Frameworks:** Spring Boot, .NET Core, FastAPI, Django, Supabase, REST APIs
- **Cloud & DevOps:** Azure, Docker, Kubernetes, CI/CD pipelines, Azure DevOps, AWS, GCP, VMware Cloud
- **Databases Technologies:** MongoDB, PostgreSQL, MySQL, SQL Server, NoSQL databases Oracle, DB2
- **Development Tools:** Git, BitBucket, Jira, Confluence, Maven, Jenkins, Perforce
- **AI & Automation Tools:** GitHub Copilot, OpenAI API, Claude, Anthropic API, Cursor, n8n, Make