

# Vansh Bhatt

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## EXPERIENCE

### Software Developer Intern

April 2025 - August 2025

*MultiQos Technologies*

*Schaumburg, IL*

- Spearheaded end-to-end development of enterprise-grade Agentic RAG systems, managing complete project lifecycle from stakeholder consultation through production deployment, resulting in 40% faster query resolution
- Architected and deployed AI-powered solutions including a Personal Finance assistant (95% accuracy), HR automation platform, and voice-activated softwares with integrated STT/TTS and LLM capabilities
- Engineered real-time computer vision applications using OpenCV with motion detection analytics, directly contributing to huge client contract renewals
- Led client presentations to C-level executives and product teams, serving as key technical liaison for cretail projects under the AI/ML division

### AI Application Developer Intern

May 2024 - August 2024

*Ascendion Engineering*

*Baskin Ridge, NJ*

- Developed production-ready AI chat systems leveraging OpenAI APIs and RAG architecture, implementing vector embeddings and RESTful APIs with Flask, achieving 30% improvement in response accuracy
- Built and launched custom GeoBot AI assistant with global location intelligence, featuring Angular frontend and Node.js backend, serving 10K+ monthly queries
- Delivered full-stack web application using ASP.NET Core 8, implementing scalable business logic, Dapper ORM integration, and comprehensive SQL database architecture ahead of project timeline

## PROJECTS

### Voice-Powered AI Scheduler | *Python, Flask, LangChain, SQL, ChromaDB, WebSocket*

- Engineered end-to-end voice-activated scheduling system with STT/TTS integration and LLM-powered NLU, achieving 90%+ intent recognition accuracy and seamless calendar management
- Implemented scalable FastAPI architecture with WebSocket real-time communication, enabling instant bidirectional feedback during voice interactions
- Optimized audio processing pipeline with advanced noise reduction and enhancement techniques, improving STT accuracy by 25%

### City Escape Game | *Java, Maven, JUnit, JFrame, Git, Docker*

- Architected real-time 2D escape game with modular OOP design, implementing dynamic map generation, intelligent AI pathfinding for NPCs, and precision collision detection systems
- Developed file-based level loading system with tile mapping and asset management, enabling seamless gameplay scaling and enhanced replayability across multiple game environments
- Built Maven project structure with automated dependency management and implemented 85+ JUnit test cases ensuring 95%+ code coverage for game logic validation

### X-Ray Classification System | *Python, TensorFlow, PyTorch, OpenCV, Pandas, NumPy*

- Built CNN-based diagnostic classifier using ResNet, Densenet and VGG architectures for TB, COVID, Normal and Pneumonia detection with 92% accuracy across 15,000+ medical images
- Applied advanced data preprocessing with Pandas and NumPy including augmentation and class balancing techniques, improving model robustness by 15%
- Deployed TensorFlow/PyTorch models with comprehensive performance tracking and validation metrics for clinical-grade reliability

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java, C/C++, HTML, CSS, SQL, MatLab

**Frameworks:** React, Node.js, Flask, Django, FastAPI, Flutter, Material-UI, Angular, Tailwind CSS, Agentic RAG

**Developer Tools:** Git, Docker, VS Code, Jupyter Notebook, Postman, Figma, Neovim, ChromaDB, MySQL

**Libraries:** PyTorch, TensorFlow, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, LangChain

## EDUCATION

**Simon Fraser University**

*Bachelor of Science in Computer Science*

Burnaby, BC

*September 2022 – May 2026*