

Munish Tanwar

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SKILLS

Programming Languages: Java, Python, JavaScript/TypeScript, C#, Go, C/C++

Frontend & Design: React, Tailwind CSS, React Native, Figma, UI/UX Design, HTML5, CSS3

Backend & APIs: Node.js, ASP.NET, Go (Gin), RESTful APIs, Microservices, Event-Driven Architecture

Cloud & DevOps: Azure, AWS, Databricks, Azure Functions, Event Hub, Terraform, Docker, CI/CD, Azure DevOps

Databases: Azure SQL, PostgreSQL, MySQL, MongoDB, Cosmos DB

EXPERIENCE

Software Engineer, Publix | Lakeland, FL

April 2024 - Present

- Acted as the **primary technical partner** for business units, translating complex operational needs into scalable **React/TypeScript** solutions and **reducing client feedback cycles by 15%**
- Architected scalable, **event-driven microservice** using **Azure Functions** and **Event Hub** to process high-throughput real-time data, handling thousands of concurrent customers with **99.9%+ uptime** during peak demand
- Built production **ETL data pipelines** using **Python** and **Databricks** to process large-scale datasets from Azure Storage to Azure SQL, directly enabling the '**Data Cloud**' capabilities required for downstream **AI analytics**
- Designed and provisioned Azure SQL databases with optimized table schemas and composite indexing strategies, implementing automated data archival pipelines to improve performance for high-volume operations
- Engineered **infrastructure as code** using **Terraform** and implemented **CI/CD pipelines** in **Azure DevOps**, **reducing deployment errors by 30%** and championing **95% unit test coverage** through TDD practices

Software Engineer Intern, Exactech | Gainesville, FL

May 2023 - Dec. 2023

- Designed and developed cross-platform inventory and case tracking system using **React Native** with **Node.js** backend, enabling 50+ sales representatives to efficiently track medical device inventory, **improving workflow efficiency by 30%**
- Architected and integrated enterprise authentication system using **Azure Entra ID** with **OAuth 2.0** flows, implementing **Role-Based Access Control (RBAC)** with granular permissions for secure, scalable user management
- Streamlined user experience by implementing **Face ID biometric authentication**, **reducing login time by 50%**
- Optimized search algorithms and database queries for **15% faster API response times** through efficient data retrieval
- Refactored CRUD operations for orders and cases, **reducing development time by 25%** through standardized patterns

PERSONAL PROJECTS

Automated Code Review Agent | AI Agent Project | *Python, Azure AI, OpenAI API, GitHub Webhooks*

Nov. 2025 - Present

- Developed an intelligent **AI agent** using **Azure AI services** to automate the software development lifecycle, aligning with **Agentforce** orchestration principles
- Engineered a real-time pipeline that intercepts GitHub Pull Requests and utilizes **LLMs** to provide **context-aware code reviews**, security scanning, and style optimization
- Implemented advanced **prompt engineering** and **RAG (Retrieval-Augmented Generation)** techniques to reduce hallucination and ensure strict adherence to engineering guidelines

Generative AI Model Analysis | ML Research Project | *Python, TensorFlow, GANs, VAEs*

Dec. 2023

- Designed and trained **GANs** and **VAEs** from scratch using **TensorFlow**, implementing custom neural network architectures with optimized training pipelines for model stability and convergence monitoring
- Developed automated evaluation framework using **FID and IS scores**, creating visualization tools to analyze model performance across datasets and hyperparameter configurations

Gator Sublease | Full-Stack Web Application | *React, Go (Gin Framework), MongoDB*

May 2022

- Developed full-stack student housing platform with **React**, **Go**, and **MongoDB**, implementing secure **JWT authentication**, **RESTful APIs**, and optimized database schema for users and leases
- Built sublease management system with CRUD operations, advanced filtering by price and lease terms, comprehensive unit testing, and **REST API documentation**

EDUCATION

University of Florida

Gainesville, FL

Master of Science - *Computer Science* - GPA 3.8

Dec. 2023

Bachelor of Science - *Computer Science, Minor - Mathematics* - GPA 3.9

May 2022

Relevant Coursework: Distributed Systems, Data Structures & Algorithms, Database Systems, Software Engineering, Machine Learning, Computer Networks, Operating Systems, Human-Computer Interaction, UX Design, Linear Algebra, Data Science

CERTIFICATIONS

Azure Developer Associate (AZ-204)

AWS Certified Cloud Practitioner