

Revanth Gundala

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EXPERIENCE

Microsoft	Oct 2025 – Present
<i>Software Engineer</i>	Redmond, WA
<ul style="list-style-type: none">Accelerated Azure DevOps CI/CD pipelines by parallelizing test execution and optimizing dependency caching, reducing average build time from 2 hours to 75 minutes (37.5% faster).Developed a multi-tenant Role-Based Access Control (RBAC) system in with dynamic policy configuration, supporting flexible permission management across multiple deployment environments and 10+ customer scenarios.Enhanced .NET Aspire local debugging capabilities to enable isolated microservice debugging with IIS Express, reducing debug setup time from 25-30 minutes to under 5 minutes for 12+ team members.	
DigiClips Media	Jan 2025 – April 2025
<i>Software Engineer Intern</i>	Remote
<ul style="list-style-type: none">Implemented real-time webstream data capture using C and FFmpeg, processing over 10GB of audio and video data per week with minimal latency as a part of an academic-industry partnership.Architected and managed a MySQL database to securely store and manage data entries, utilizing optimized SQL queries to reduce data retrieval times by 20%.Integrated Docker containers to transcribe speech and video-to-text from web streams, achieving 95% transcription accuracy for diverse audio inputs, enhancing data analysis capabilities.	
Wells Fargo	June 2024 – Aug 2024
<i>Software Engineering Intern</i>	Chandler, AZ
<ul style="list-style-type: none">Developed and validated a full-stack ATM locator service using Java, Spring Boot and GraphQL, drastically reducing the number of queries compared to existing REST endpoints.Enhanced database performance by implementing geospatial indexing in MongoDB, reducing ATM search latency by 60% and optimizing location-based queries.Implemented comprehensive testing suite using JUnit and Cypress, achieving 95% test coverage and identifying 12 critical edge cases in the API implementation.	

EDUCATION

Arizona State University	GPA: 3.93
<i>B.S. Computer Science, Minor in Business, Barrett Honors College</i>	May 2025

PROJECTS

Diffusion Policy for Robotic Manipulation – Github – <i>PyTorch, Robosuite, Huggingface, Modal</i>	Jan 2026
<ul style="list-style-type: none">Implemented a Diffusion Transformer (DiT) architecture for visuomotor policy learning, adapting the Diffusion Policy framework for robotic manipulation tasks in robosuite; achieved 100% success rate on PickPlaceCan and 70-75% on Lift and Square tasks.Designed a 16-layer transformer with 512 hidden dimensions, 8 attention heads, and cross-attention conditioning on multi-frame observations (4-frame history); used DDPM with cosine noise schedule over 100 diffusion steps to predict 16-step action horizons.Built end-to-end training and evaluation pipeline using robomimic demonstration data, with support for Modal cloud GPU training; evaluated across 50+ episodes per task with video recording and metrics logging.	
Game Engine Simulator – Github Article – <i>PyTorch, Huggingface, Azure, MLFlow, Gradio</i>	May 2025
<ul style="list-style-type: none">Implemented a research paper that generates frames dynamically to simulate DOOM, creating a proof-of-concept for a Generative Game Engine using Stable Diffusion.Engineered the diffusion model, created an agent with reinforcement learning to generate 10k frame-action-pairs, and implemented a full training loop in PyTorch reducing inference drift by 20%.Managed the end-to-end MLOps workflow by containerizing the model with Docker, deploying on Microsoft Azure, and created a full-stack application with Gradio for real-time inference and demonstration.	

SKILLS

Languages: Python, Typescript, Java, C/C++, SQL

Frameworks/Tools: PyTorch, React, Node.js, Spring Boot, AWS, Azure, GCP, Docker

Coursework: Artificial Intelligence, Machine Learning, Data Structures and Algorithms, Operating Systems, Compiler Design, Database Management, Quantum Computing