Nathan Tran

<u>n8than.me</u> |nathan.tran04@sjsu.edu | linkedin.com/in/nthntrn | github.com/n8thantran

EDUCATION

San Jose State University

Bachelor of Science in Computer Science

Expected Graduation: May 2028 Organizations: Software and Computer Engineering Society, Responsible Computing Club Relevant Coursework: Data Structures and Algorithms, Introductory Python, Discrete Math, Calculus I & II

EXPERIENCE

Software Engineering Intern	Nov. 2024 – Present
 Ego (YCombinator Winter '24 Batch) Enhanced Roblox game by refining LLMs to improve speech patterns and user in Created a Discord activity with LLMs, optimizing speed for a game that gained if Researched QA game agent using Claude for testing and efficient bug identification Improved backend efficiency using FastAPI by optimizing query handling, reducing 	10,000 users in one month on without human intervention
 Software Engineering Intern SJSU Software & Computer Engineering Society Developed Discord bot with LLM integration utilizing FastAPI and Groq's API f Implemented tool calling using LangChain framework for external API interactio Integrated security evaluator, rate limiting, parameter validation, and authorizati Collaborated on API specifications for seamless integration between Discord bot 	ns and complex task execution ion checks for API stability
 Artificial Intelligence & Machine Learning Officer SJSU Software & Computer Engineering Society Utilized pandas and NumPy libraries to manipulate and analyze large datasets for Developed K-Nearest Neighbors and clustering algorithms for supervised and unse Employed Git for version control, facilitating seamless teamwork in software deve Leveraged Google Colab and Jupyter Notebooks to collaborate on data analysis a 	supervised learning elopment processes
PROJECTS	N 0094
 DreamScapes Meta Quest 3, Unity, C#, Python, PyTorch, FastAPI Engineered image-to-3D pipeline using FLUX.1 and TripoSR for gaussian splatting Built a high-performance FastAPI backend achieving 30-second latency for complete Implemented seamless runtime 3D asset integration in VR environments without Won Best Use of AI in XR and Best Use of AWS prizes out of 60 teams at 	lete voice-to-3D scene generation requiring application restarts
 NutriLens Snap AR Spectacles, JavaScript, TypeScript, Python, FastAPI, Figma Developed a voice-activated AR app using Snap Spectacles for real-time food rece Built a Python FastAPI backend that processes frame captures and provides nutriis Implemented a voice-command functionality that gave meal suggestions based on Optimized data flow between devices through direct collaboration with Snapchat 	ritional data within 2 seconds a user-provided ingredients
 SJSU Parking Predictor Python, Git, Scikit-Learn, Pandas, MatPlotLib Achieved 95% parking prediction accuracy by developing an AI system using web Enabled real-time parking occupancy analysis and forecasting by implementing a Served 500+ users with instant updates and predictions by creating a Discord bo Optimized parking predictions by applying statistical analysis and time series for 	data pipeline ot for parking availability
TECHNICAL SKILLS	
Languages: Python, Java, C#, Javascript, Typescript, HTML/CSS	

Languages: Python, Java, C#, Javascript, Typescript, HTML/CSS Frameworks: OpenAI API, MongoDB, Flask, Pandas, MatPlotLib, Scikit-Learn, PyTorch, Selenium Developer Tools: Git, Docker, VS Code, Visual Studio, Unity Libraries: NumPy, Scikit-Learn, BeautifulSoup4, FastAPI, LangChain, Groq

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San Jose, CA