Pranav Ganti

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Education

University of Michigan Ann Arbor, MI

BSE, Computer Science (College of Engineering), 3.23 GPA (Cum Laude) May 2024

- **Courses:** Data Structures and Algorithms, Computer Architecture, Web Applications, Artificial Intelligence, Machine Learning, Information Retrieval, Mobile App Development, Data Analytics Tools

Technical Skills

Certification: AWS Certified Cloud Practitioner, Google Cloud Foundational Certification (in-progress)
Programming Languages: Python, C++, C#, C, SQL, JavaScript, HTML/CSS, Rust, ARM assembly, Swift, React
Frameworks: Flask, React Native, Flutter, PyTorch, TensorFlow, PyTest, Scikit-Learn, Angular, LLMs
Methodologies: Agile Methodologies, SOLID Principles, Test-Driven Development, Eight Disciplines Problem Solving
Tools: Visual Studio Code, Pycharm, Xcode, Git, Prometheus, Grafana, DevOps, Docker, Testflight, Microsoft Suite, Webex
Operating Systems: Linux, macOS, iOS, Android, Windows
Personal Interests: Dance, Piano, Drawing, Painting, Competitive Pokémon, Outdoor Sports, Architecture

Work Experiences

Ford Motor Company Dearborn, MI

Product Development Intern May – Aug 2022 & Jun – Sep 2023

- Extracted strategic insights on electric vehicle charging data and features through an extensive competitive analysis, bench-marking against 11 competitive models to assess and compare charging capabilities
- Optimized the FordPass Plug-and-Charge feature by analyzing user charging behaviors from over 40,000 unique VINs

University of Michigan Ann Arbor, MI

Joy of Coding through Python Teaching Assistant May – Sep 2023

- Engaged high school students in coding by introducing Machine Learning and Computer Vision through examples like Snapchat filters
- Provided lecture summaries and one-on-one support to clarify doubts and foster enthusiasm

EBSCO Information Services Ipswitch, MA

Cloud Platform Engineering Intern Mar – Aug 2023

- Performed ETL processes using cloud infrastructure, extracting and transforming data related to AWS EKS version upgrades into a visibility platform for employees to access on-demand upgrade information
- Analyzed AWS resource costs, developed an algorithm to achieve $500 monthly savings by resizing under/over utilized Kubernetes containers, and identified optimization opportunities by evaluating unique pricing structures

Physital Consulting LLC New York City, NY

Data Science Intern Jun – Aug 2021

- Contributed to the development of a proprietary platform used to assess AI maturity by designing and implementing scalable and efficient data structures
- Utilized Excel algorithm to prioritize key digital maturity survey KPIs using primary/secondary research methodologies

Technical Projects

Glenbrook Trading LLC (Quant Startup) | *In House Software, C, Python* May 2024 – Present

- Designed and implemented high-performance mid-frequency trading algorithms for Nasdaq Futures, optimizing strategies for risk management and achieving significant improvements in trading performance metrics
- Collaborated closely with quantitative analysts and engineers to rigorously test and refine trading algorithms, ensuring optimal performance and reliability in a high-frequency trading environment

Social Media Platform (EECS 485) | *ReactJS, Flask, SQLite, Python, HTML, CSS, AWS* Fall 2023

- Developed a full-stack web application with a REST API and deployed it on AWS, focusing on creating seamless user experiences through optimized API integrations, similar to enhancing user experience in trading applications
- Implemented CI/CD pipelines and conducted end-to-end testing on AWS, ensuring high-quality code delivery and reliable deployment—key for maintaining robust software solutions

CPU Cache Simulation (EECS 370) | *C/C++, Assembly Language, LC2K architecture* Spring 2023

- Developed and optimized a CPU cache simulation to enhance system performance and reduce latency, applying low-level C/C++ programming techniques to achieve efficient memory management—critical for high-frequency trading systems
- Engineered flexible caching strategies with configurable parameters, focusing on minimizing latency and maximizing throughput in performance-critical environments