Khant Nyi Hlaing

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Education

Pasadena City College — Pasadena, CA
B.S. in Computer Science GPA 3.95/4.00 — *Expected Transfer: Fall 2025*
Leadership: STEM Competition Society (Vice-President)

Technical Skills

Languages: C++, Python, JavaScript, SQL, HTML, CSS
Tools/Technologies/Frameworks: React, Node.js, Express.js, Firebase, Vercel, Postman, RESTAPI, Scikit-learn, Numpy, Pandas, Matplotlib, Jupyter Notebook, Postgresql

Projects

JourneyAI | *React*
- Achieved 200 sign-ups in a day for an AI-powered travel planner using Gemini for personalized planning.
- Optimized API performance by reducing call frequency of 20% through efficient state management in React components for cost-effective scalability.

Mini-SQL | *C++*
- Developed a console-based SQL prototype from scratch using C++ with CRUD operations. Invalid commands and errors are efficiently handled.
- Built B+ tree, stack, queue, shunting yard, parser, tokenizer, and State Machine Algorithms from scratch to use as building blocks.

TaskflowAI | *React*
- Boosted user engagement by 60% by integrating GPT-4o for real-time task prioritization and intelligent scheduling recommendations.
- Streamlined deployment pipelines and resolved code conflicts in under 24 hours using `CI/CD` automation on Vercel.
- Led backend architecture design, built scalable APIs with Node.js and Express.js while optimizing database efficiency with Firebase, earning hackathon finalist recognition.

Experience

AI/ML Intern — May 2024 – Present
BreakThroughTech AI — *Los Angeles, CA*
- Lead a team of 5 engineers to develop an AI solution for a partner company, leveraging large language models (LLMs) for dynamic exploration of publishing houses, improving decision-making for authors around the world
- Achieved 50% improvement through Spectral Clustering technique with silhouette scores of (.45-.50). Used Cosine Similarity to calculate similarity within clusters and user input
- Deployed models in Python flask app with React for front-end and integrated RAG to reduce hallucinations.
- Prompted LLAMA3-70-B via GroqAPI with cosine similarity scores and retrievals from RAG for final ranking of top 5 publishers

Visiting Undergraduate Research Fellow — Jan 2024 – May 2024
Caltech — *Pasadena, CA*
- Compiled different samples across the literature and processed 260K datapoints. Queried 110K data points from satellite data to perform robust analysis of old stars in the Milky Way
- Utilized Astro.py to perform Monte Carlo Simulations and linear interpolation techniques to estimate missing information of solar masses and velocity dispersions, saved 40% of data points.
- Sampled Washington Double Star Catalog and double the data points by splitting the pairs with Astro.py

Uber Career Prep — Jan 2024 – May 2024
Virtual
- Selected as 1 of 50 (3% acceptance) students to gain insights into Software Engineering field and explore career paths within Uber while receiving close mentorship
- Participated in 1:1 mock technical interviews to upskill data structures and algorithms skills and received feedback from Uber Engineering team.