

Buyan Khurelbaatar

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EDUCATION

San Jose State University

B.S in Software Engineering, Mathematics

San Jose, CA

Graduate in May 2027

EXPERIENCE

Passion Project

Cowabunga IDE

April 2025 – Present

Mountain View, CA

- Building 2D open world, visualizing codebase as connected flow diagram IDE that lets you write code using instructions or "visually" (vscode fork). Applied for YCombinator Fall 25 batch, currently seeking investors

Backend / Data Engineering Intern

ONDO LLC

June 2024 – August 2024

Ulaanbaatar, Mongolia

- Built a logging system to capture and store 2 TB/day of telecom data

Graphic Designer, Event Coordinator

Foothill College

Feb 2024 – June 2025

Los Altos Hills, California

- Worked as a graphic designer in the marketing team, created over 1000+ designs for events and clubs

PROJECTS

GoTN - Graph of Thoughts Network |

- MCP server breaks down prompts into micro prompts graph tree, and finds the best path to reduce hallucination

Truth Circuit |

- Reasoning engine that creates a visual, auditable trail of AI decision-making. It has a Path Registry system, which allows users to discover, download, and install approved reasoning paths.

TeelCode | *React, Supabase, Node, Tailwind, Full Stack Development*

- Personalized LeetCode-like interface with spaced recall, ratings, memory tracking and AI-guided problem chats

Clarity | *React, Electron js, Flask, Full Stack Development*

- App that creates a daily time block schedule based on the user's long-term goals and their intention for the day.

Transformers from scratch | *Pytorch, Deep Learning, NLP*

- Transformers built from scratch, multi-head attention mechanisms and positional encoding for natural language processing tasks (Implemented from "Attention is all you need" Paper)

Multi-Head Latent Attention (MLA) built from scratch | *Pytorch*

- Implemented MLA mechanism introduced in the DeepSeek-V2 paper

Cooking College | *React, NextJS, MongoDB, FastAPI, LLM API, Full Stack Development*

- Web app that parses syllabus and notes to generate spaced repetition quizzes, custom learning roadmaps, and AI-powered flashcards. Uploads documents, generates questions, and returns results

Threat Tracker | *React Native, FastAPI, MongoDB, Full Stack Development*

- iOS/Android app that visualizes threat zones based on scraped local news, reports, and user-submitted data; uses LLMs to extract coordinates and assign danger level scores.

TECHNICAL SKILLS

Languages: Java, C++, Python, SQL, JavaScript, Dart, Data Structures

Web Dev Frameworks: React, React Native, Flutter, Next.js, Tailwind, Flask, Django, Node, Redux, GraphQL

Machine Learning, AI: PyTorch, Deep Learning, Transformers, NLP, Pandas, NumPy, Matplotlib, OpenCV

Data, Backend: SQL, NoSQL, MongoDB, Pinecone, FastAPI, Snowflake, Supabase, REST APIs, WebSockets

Relevant Activities: 20+ Hackathons experience, 5 times winner