

# Buyan Khurelbaatar

669-298-1133 | [buyan.khurel@gmail.com](mailto:buyan.khurel@gmail.com) | [linkedin.com/in/buyankh](https://linkedin.com/in/buyankh) | [github.com/buyan-kh](https://github.com/buyan-kh) | [buyan.tech](https://buyan.tech)

## EDUCATION

**San Jose State University**  
*Bachelor of Science in Computer Science*

San Jose, CA  
Aug. 2025 – May 2027

**Foothill College**  
*Associate's in Computer Science*

Los Altos Hills, CA  
April. 2023 – June. 2025

## EXPERIENCE

**Founder, IDE Startup**  
*Cowabunga*

April 2025 – Present  
Mountain View, CA

- Visual 2D Open World IDE
- Forked VSCode and built every feature end to end solo

**Passion project, Side Project**

February 2025 – Present

*Distribut.io - Distributed Model Training Startup*

Mountain View, CA

- Peer-to-peer framework that lets everyday users donate idle CPU / GPU time for collaborative model training; current test bed runs on 3 personal machines (40 CPU cores, 2 consumer GPUs) across a home network
- Benchmarked the proof-of-concept on a 125 M-parameter GPT-2 fine tuning; achieved 20% lower training cost vs. single-machine baseline by distributing workload.

**Backend / Data Engineering Intern**

June 2024 – August 2024

*ONDO LLC*

Ulaanbaatar, Mongolia

- Built an end-to-end streaming pipeline ingesting 2 TB/day of cellular-telecom logs with Kafka, Spark Structured Streaming
- Containerized every stage (Docker + Kubernetes) maintaining 97% pipeline uptime

## PROJECTS

**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.

**Clarity App** | *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.

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

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

**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

## 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:** TensorFlow, PyTorch, Computer Vision, Deep Learning, Transformers, NLP, Pandas, NumPy, Matplotlib, OCR

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

**Relevant Activities:** 20+ Hackathons experience, 7 times winner, Competitive Programming