

APEKSHIK PANIGRAHI

Palo Alto, CA

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Skills

- **Programming & Dev:** JavaScript | TypeScript | C++ | C | Python | SQL | NoSQL | PostgreSQL | NextJS | React | React-Native | Tailwind CSS | Git | SwiftUI | Unreal Engine 5 | Linux/MacOS/Windows | Ably (Pub/Sub).
- **AI and Machine Learning:** Deep Learning | RAG Stack | Supervised/Unsupervised Techniques | Large Language Models | PyTorch | Tensorflow | Pandas | NLP | Local LLMs | Model Evaluation Metrics | Data Augmentation.
- **Cloud Computing & DevOps:** AWS | GCP | Firebase | Google Cloud Run | Kubernetes | CI/CD | Serverless Functions | Cloud Storage | Pinecone | Vector Store | Firestore | Cloud Architecture | Distributed Systems | Frontend | Backend | English, Hindi, Odia – All Professional Proficiency or above.

Experience

Human Data Team Lead

xAI

Aug 2024 - Current

- Led, managed, and mentored over 300 AI Tutors in developing training data for Grok 3, Grok 3.5 and Grok Voice Mode. Played a crucial role in managing and creating efficient human data pipelines to generate large datasets for important features of Grok 3 like DeepSearch and Grok Voice Mode.
- Collaborated closely with engineers and leadership to setup complex data pipelines and guidelines for AI Tutors to efficiently grade and label data points for Grok 3 & 3.5. Effectively acted as a bridge between engineers and AI Tutors, effectively communicating challenges faced by tutors to enhance data pipeline efficiency and quality for Grok 3 and 3.5.

Founding Platform Engineer

Euso AI

Dec 2023 - Aug 2024

- Lead the development and creation of EusoGPT 2.0, an AI-driven Cloud Deployment Engine, enabling seamless cloud infrastructure deployment and reducing manual intervention by 95% using **AWS, Google Cloud Run, Firebase SQL, Terraform, Python, Quart (Async Flask), NextJS, & Tailwind CSS**.
- Backend Infrastructure Manager: Engineered the first version of a robust distributed backend using **Python Flask on GCP VMs**, translating natural language inputs into **Terraform** code, minimizing deployment errors and expediting provisioning by 7x.
- Backend Serverless Overhaul: Led the transition to **Google Cloud Run** environment to provide better scalability and availability of serverless architecture, simplifying deployment and management workflows and enabling **CI/CD pipeline** to reduce operational costs by 5x.
- Advanced Integration with **RAG Stack**: Enhanced automation pipeline with RAG Stack, integrating **Pinecone Vector-store, PostgreSQL** for codebase metadata storage, and **Neo4j Graph Database** achieving a 3x improvement in optimizing data retrieval and storage.
- Frontend and User Experience Enhancements: Overhauled frontend using **NextJS and Tailwind CSS**, deployed on Vercel, improving user navigation speed by 30% and enhancing overall engagement.

iOS (SwiftUI) Mobile Developer

Asterisk Inc.

Dec 2022 – Nov 2023

- **Full-Stack iOS App Development:** Built a fully functional social media app for iOS using **SwiftUI (MVVM architecture), Google Cloud Storage, Firestore, and NodeJS** for push notifications. Improved user **authentication with Firebase**.
- User Engagement Features: Designed and implemented features to enhance user engagement, such as push notifications, real-time updates, and interactive UI components.
- Performance Optimization: Optimized app performance, reducing load times by 50% and improving overall user satisfaction.

Full-Stack Software Developer Intern

Graco Inc.

May 2023 – Sep 2023

- Leading Developer: One of two developers building GracoTrack, a new app for wireless machine connectivity and analytics, improving health/maintenance decision-making.
- UI and Backend Development: Built and tested the app for iOS and Android using **React-Native** for frontend and **AWS** services like **Cognito Auth & EC2**, for backend.
- Bluetooth Connection API: Developed the **Bluetooth API**, generated **Protobufs** for data serialization, and optimized charting library performance for large datasets.

Physics, CS, and Math TA

 AoPS Inc.

Sep 2019 – Present

- Taught under the mentorship of renowned professors from prestigious institutions like **MIT, Stanford, Harvard, and Princeton**, ensuring high-quality education and guidance.
- Assisted in teaching advanced math, physics, and computer science courses since I was 17, including **Olympiad Math, Number Theory, Linear Algebra, Combinatorics and Probability Theory, Calculus, and advanced OOPs with Python**.

Education

Bachelor of Science

University of Minnesota - Twin Cities

Aug 2020 – May 2024

- Major in Computer Science: Specialization in **AI, ML, and Deep Learning** (3.62 GPA, Dean's Honor List Awardee)

Research and Awards

Two-time International Semi-Finalist

 Breakthrough Prize

2016 & 2018

- Judged by renowned scientists, mathematicians, and tech leaders, including **Terence Tao, Sal Khan (Khan Academy), and Scott Kelly (Astronaut)**.
- **Directed, scripted, voiced, and 2D-hand animated** short science films explaining concepts such as Wave-Particle Duality Paradox and Space-Time Curvature in relation to gravitational time dilation. Used tools like **Da Vinci Resolve, Adobe Premiere Pro, After Effects, and Toon Boom Harmony**.