ANGAD SINGH JOSAN

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EDUCATION

University of California, Berkeley   May 2028
B.S. in Electrical Engineering and Computer Sciences (EECS)   *GPA: 4.00/4.00*
Relevant Coursework: Deep Learning for Visual Data, Introduction to Computer Science

SKILLS

Programming Languages: Python, TypeScript, C++, R, C#, Java, JavaScript
Technologies: Node.js (Express, Next, React), Amazon Web Services (AWS), Google Cloud Platform (GCP), PyTorch, Tensorflow, Flask, LangChain, QDrant, OpenCV, Numpy, Pandas, W&B, Django, GitHub Actions, pytest

PROJECTS

DeCal Website – Student-Taught Course Coordination   *September 2025 - Present*
- Developed student-taught course enrollment platform to save administrative board 300+ hours annually in review
- Architected PostgreSQL database and deployed on Berkeley servers for 8,000+ students taking 200+ courses annually
- Drove end-to-end product development and built Next.js workflows to improve course approval turnaround by 75%

Edgar – RAG-based AI Admissions Chatbot   *February 2024 – May 2024*
- Developed RAG admissions chatbot to save admissions office 700+ hours annually through automated email response
- Lead a team of 3 developers to build an admissions chatbot; a project funded and selected by the business office
- Use Python, OpenAI API and Qdrant to develop AI agent that answers questions on business data with guardrails

EPSchedule – School Schedule App   *September 2021 – September 2025*
- Lead development of school schedule coordination software with 500+ active users and 6 logins per user per month
- Build Python (Flask) based REST APIs with Google Cloud Platform cron jobs, GitHub CI/CD, and pytest unit testing
- Enable 95% of school to achieve name-to face recognition through schedule and photo sharing features

WORK EXPERIENCE

ClassProxima – Caltech-backed EdTech startup   **Seattle, Washington**
Software Engineer Intern, AI/ML   *April 2024 – September 2024*
- Architected AI daily video summary system for parents in childcare centers saving 520+ hours in annual review time
- Built end-to-end image pipeline for frame extraction, AWS S3 storage, and workflows for manual data annotation
- Fine-tuned CLIP models with PyTorch, achieving 83% accuracy on proprietary datasets with W&B monitoring
- Reduced inference latency by 57% on CLIP models through quantization, batching, and PCA embedding compression
- Optimized model deployment on edge devices through Java interface for delayed inference and resource management

Cambridge University   **Cambridge, UK**
Machine Learning Researcher   *May 2023 – September 2023*
- Built and trained BERT models on 500,000+ record multilingual social media dataset of ethnic minority discourse
- Engineered data cleaning pipeline, utilized NumPy and Pandas to process tokenization and feature extraction
- Achieved 12% improvement in entity lexical smoothing accuracy through finetuning with Tensorflow
- Mentored by Dr. Taher Pilehvar on ground-up NLP development, including scratch Transformer implementation
- Selected for competitive Cambridge NLP research program from 4200+ applicants, awarded STEM Merit scholarship

KAGS Group   **Seattle, Washington**
Software Engineer Intern   *August 2020 - Current*
- Spearheaded and architected automated cloud-based HR system to transition company's HR from paper to digital, use Microsoft Power Platform, 2000+ hours saved annually in manual HR document creation and review
- Developed secure data storage pipeline to manage 1900+ employee records digitally with role-based data security
- Streamlined 15+ workflows for offer letters and performance reviews through automation, achieving 99.3% uptime
- Created workflows using OpenAI API for sentiment analysis on employee satisfaction data in reinforced reports