

# Aung Bo Bo

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## EDUCATION

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### San Jose State University

San Jose, CA

*Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 3.8*

*Aug. 2023 – Dec. 2026*

- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Management Systems, Software Engineering, Artificial Intelligence, Advanced Python, Web Development, Graph Theory, Combinatorics

## EXPERIENCE

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### Web Developer Intern

Feb. 2026 – Present

*Alteara, Inc.*

*Remote*

- Resolved UI accessibility issues and backend integration bugs, reducing reported errors by 30% for Agents of Influence, an educational media literacy game
- Developed and maintained full-stack features across React, Node.js, and Firebase for a production-deployed web application used by 120,000+ students

### Undergraduate Researcher

Jan. 2026 – Present

*San Jose State University*

*San Jose, CA*

- Conducted a 48-source literature review on matrix-free text embedding methods spanning sparse, graph-based, low-rank, randomized, and Krylov subspace approaches
- Prototyped and benchmarked memory-efficient embedding algorithms in Python, evaluating tradeoffs and exploring how RAG and vector database clustering can compete with next-token prediction models

### Backend Developer

Mar. 2025 – Sep. 2025

*Trekteria*

*San Jose, CA*

- Built and scaled the backend for an AI camping planner app using React Native, Expo, and Supabase, integrating 10+ RESTful APIs to improve data flow
- Implemented a SQLite caching layer to boost data consistency and performance, achieving 99.9% uptime and full offline access for 200+ users

## PROJECTS

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### Jade.AI | *Python, FastAPI, Groq, Pandas, Chart.js, Next.js*

October 2025

- Engineered an AI data analysis tool to clean, analyze, and visualize data, reducing manual effort by 70%
- Optimized backend performance using FastAPI, achieving 5x faster response times for real-time AI interactions
- Won “Best Use of Groq” at Cal Hacks 12.0, placing 1st out of 73 competing teams

### YuCode | *Python, Flask, Next.js, Claude, Vercel*

September 2025

- Built an AI technical interview prep tool using Flask and Next.js, saving users \$1,500+ in mock interview costs
- Integrated Claude API for adaptive grading and real-time feedback, reducing response turnaround to under 5 sec
- Recognized by judges as “Most Creative Project” for innovative AI-driven design at HackMIT 2025

### SJ Snap | *Next.js, Supabase, Google Gemini, Mapbox*

April 2025

- Created a real-time service request system using Supabase, enabling residents to submit and track city issues
- Integrated Google Gemini API for faster report validation and QA, cutting manual review time by 67%
- Automated geolocation and improved accuracy by 25% via Mapbox spatial processing

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, SQL, Java, Javascript, C++, HTML, CSS

**Frameworks:** FastAPI, Flask, React, Next.js, Node.js, React Native

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, PyTest, PyTorch

**Developer Tools:** Git, Github, Docker, Linux, AWS, Google Cloud Platform, Claude Code, Postman