

NATALIE LAM JOHNSON

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EDUCATION

University of Southern California, Marshall School of Business and Viterbi School of Engineering **Los Angeles, CA**
Bachelor of Science in Artificial Intelligence for Business May 2028 (Expected)

- Relevant Courses: Artificial Intelligence, Statistics and Data Science, Python, C++, Organizational Behavior and Leadership, Financial Accounting, Managerial Accounting, Discrete Math, Web Development, Communication Strategy

AWARDS

USC Presidential Scholar, National Merit Scholar, Dean's List, Student Athlete Outstanding, Gold President's Volunteer Service Award

EXPERIENCE & LEADERSHIP

Advantest **San Jose, CA**
Software Engineer Intern – Applied Research Group May 2025–Present

- Engineered automated Python pipeline converting 12,000+ HTML documentation files into RAG LLM-enabled knowledge system for Advantest's flagship 93k product, improving retrieval accuracy through optimized PDF formatting/segmenting and content preservation validation
- Developed intelligent version control automation using unified diff algorithms to detect documentation changes between versions, reducing processing overhead by 54% while preventing data loss during system ingestion
- Authored strategic intelligence reports on AI/LLM market trends and competitive positioning, analyzing vendor technical capabilities, pricing models, and performance benchmarks to inform enterprise technology investment decisions
- Conducted comprehensive vendor due diligence and contract evaluations assessing AI provider agreements and model licensing terms, developing 5-year AI CapEx forecasts and enterprise deployment recommendations

DataSC **Los Angeles, CA**
Vice President of Operations Feb 2025–Present

- Developed and executed marketing strategies to boost club sign up enrollments by 340%
- Boosting member retention by 136%, implementing new programs such as Kaggle Case Competition teams & AI powered member weekly connections

ML Business Analytics Project Member & Director of Marketing Aug 2024–Feb 2025

- Executed end-to-end machine learning pipeline including data collection, preprocessing, dataset analysis, classification model building and training, hyperparameter optimization, and model evaluation to develop customer churn prediction system that identifies at-risk customers and enables personalized retention strategies for improved customer lifetime value

USC Vietnamese Student Association **Los Angeles, CA**
Director of Finance Aug 2024–Present

- Manage \$6,000+ annual budget and lead 17-person team to execute financial planning, fundraising, and vendor partnerships with local restaurants and boba shops for organizational events and initiatives
- Secured \$3,000 in fundraising for 300-person dating show event spanning 15 colleges across Southern California VSA union
- Orchestrated 200+ attendee Black April cultural event featuring LA Times keynote speaker, coordinating speaker logistics, venue management, and marketing strategy

Projects

AI Interview Bot - RAG-Powered Personal Assistant | *JavaScript, Node.js, Google Gemini API, Vercel* Jun 2025–Present

- Built full-stack RAG application processing 20+ pages of personal documents into vector embeddings using Gemini API, implemented cosine similarity search algorithm for context retrieval, and deployed serverless backend achieving <500ms response time for real-time chat interactions

TimeBlock Pro - Progressive Web Application | *React, TypeScript, Vite, Service Workers, GitHub Actions* Aug 2025–Present

- Built PWA with custom service worker implementing intelligent caching strategies, configured Wouter routing for GitHub Pages deployment, and automated CI/CD pipeline achieving offline functionality and native app experience on mobile devices

INTERESTS

- Water Polo, Competitive Swim, LinkedIn Educational Industry Analysis Videos

SKILLS

- C++, R Studio, Python, HTML/CSS, JavaScript
- Microsoft Excel, Microsoft Word, Microsoft PowerPoint
- Vietnamese Language & ASL Sign Language
- Lifeguarding with CPR/AED for Professional Rescuers and First Aid Certification