

Michael Lac

michael.lac@sjsu.edu | linkedin.com/in/lacmichael | github.com/lacmichael | lacmichael.com

EDUCATION

San Jose State University

San Jose, CA

Bachelor of Science in Computer Science

May 2028

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Design, Processing Big Data, Database Management Systems, Data Visualization, Probability and Statistics, Linear Algebra

EXPERIENCE

Amazon

Sep 2026 - Nov 2026

Software Development Engineer Intern

Seattle, WA

- Incoming to AWS EBS team Fall 2026

Adobe

June 2026 – Present

Software Engineer Intern

San Jose, CA

- **Developer Platforms;** Identified and filled missing data across a technical service registry with ~32k services.
- Designed a React/FastAPI dashboard to visualize data-quality gaps and surface backfill recommendations
- Built ETL pipelines to unify service, GitHub, and cloud account data to power automated validation and matching
- Automated service-to-repository linking using inverted-index search across ~100K GitHub repositories in ~5ms.

Intel

June 2025 – June 2026

Software Engineer Intern

Santa Clara, CA

- **Analytics and Technology Automation;** Built a multimodal RAG chatbot for PDF search and Q&A
- Improved PDF extraction accuracy by 23% by building a table-extraction pipeline with Camelot and pdfplumber
- Increased retrieval accuracy by 20% by adding a Jina reranker model to a two-stage retrieval pipeline
- Reduced model grading times by 50% by designing an automated evaluation workflow with Langchain

Dropping Calc

Dec 2024 – May 2025

Software Engineer Intern

San Jose, CA

- Built an OpenCV web service endpoint for scale and translation compared to a template image for 25k+ users
- Reduced image processing latency by ~90% by parallelizing OpenCV preprocessing and ORB feature extraction
- Containerized and deployed the service to Google Cloud Run through a Docker and Cloud Build pipeline

SJSU College of Engineering

Aug 2024 – Dec 2024

Software Engineer Intern

San Jose, CA

- Constructed a Rate My Professor platform for class-based searches indexing 2,000+ professors and 5,000+ classes
- Automated 95% data ingestion by designing a web scraper system for the Rate My Professor GraphQL API
- Cut search times by ~40% with PostgreSQL full-text search with weighted relevance ranking and prefix matching

PROJECTS

MRVL | TypeScript, React, TanStack Start, Convex

- Full-stack esports analytics and community platform serving 5,000+ users tracking Marvel Rivals esports
- Analytics tool used by multiple professional esports organizations to help win \$3M+ in prize money
- Used ClickHouse to transform and serve match replay data for multidimensional player, team, and hero analytics
- Built an end-to-end observability stack using Sentry and Grafana to monitor application errors, service latency

SBA Loan Analysis and Prediction Model | R, Python, Scikit-Learn

- Analyzed ~280K SBA loans to identify key drivers of defaults with end to end machine learning pipelines
- Engineered and evaluated 12 predictive models, achieving 93% accuracy in loan default prediction
- Applied cost-sensitive classification to maximize net profit on loan approvals, increasing profits by ~75%
- Awarded **Best Undergraduate Team** at the 2024 CSU Systemwide Analytics Competition

TECHNICAL SKILLS

Languages/Frameworks: Python, TypeScript, JavaScript, Java, React, Rust, C/C++, HTML/CSS, SQL, Go

Developer Tools: Git/GitHub, Linux, Bash, Powershell, Docker, Kubernetes, Kafka, GCP, AWS, Azure

Libraries: NumPy, Pandas, PyTorch, TensorFlow, Scikit-Learn