Brian Mai

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EDUCATION

California Polytechnic State University   Sep 2022 - Jun 2026
Bachelor of Science in Computer Science | ***GPA: 3.92/4.00***   *San Luis Obispo, CA*
- Activities: Cal Poly Linux User's Group - Treasurer | Hack4Impact - Technical Lead | Alpha Phi Omega

EXPERIENCE

Federal Reserve Bank of San Francisco   Jun 2024 – Aug 2024
Software Engineer Intern   *San Francisco, CA*
- Assisted in the migration to AWS GovCloud, utilizing AWS Cloudwatch, SNS, EC2, S3, Lambda, Step Function, AWS Config, and AWS Health Dashboard to develop resource monitoring tools
- Developed a scheduled Lambda functions to analyze image rehydration for ECS services and EC2 instances, and enforce IAM policies to be least privileged
- Implemented a scheduled Lambda function to automate the cleanup of unused AWS resources in dev accounts
- Deployed a machine learning model using SageMaker and API Gateway to predict new graduate employment rates
- Implemented scalable AWS infrastructure with Terraform, deployed processes through GitLab CI/CD pipelines

Cal Poly Computer Science Department   Jan 2024 - Present
Research Assistant   *San Luis Obispo, CA*
- Collaborating on the AI For Search & Rescue project under Professor Franz Kurfess, developing a React application that leverages AI to assist in locating missing individuals.
- Designing and implementing Firebase CRUD operations, seamlessly integrating them with machine learning models on the back-end to enhance real-time data processing.
- Translating Figma into functional, interactive components; review and manage pull requests and issues

E. & J. Gallo Winery   Jun 2023 – Aug 2023
Software Engineer Intern   *Modesto, CA*
- Developed a real-time centralized-logging platform and dashboard application using Next.js and Tailwind CSS displaying metadata, AWS EC2 and RDS, and ServiceNow, providing visibility of important metadata to the DevOps and DBA team and offshore team for better triaging of issues
- Enabled real-time AWS resource changes directly through the application by utilizing the AWS SDK for JavaScript, and AWS tags for resource management
- Led the deployment of Next.js applications to AWS Amplify by implementing a GitLab CI/CD pipeline.

Alan AI   Jun 2022 – Sep 2022
Software Engineer Intern   *Remote*
- Developed a React application integrating Alan AI's speech-to-text API, enabling voice interaction capabilities
- Wrote end-to-end, unit, and integration tests using Jest to ensure API functionality in web applications; utilized Postman test API request validation

PROJECTS

maihoney.com | *Web Development, Next.js, TypeScript, Tailwind CSS, Stripe, Firebase, Vercel Analytics, Beekeeping*
- Built a full-stack e-commerce website with a custom content management system (CMS) selling organic, natural honey generating over $1,000 revenue. Ensured best practices for search engine opimization (SEO) such as SSR

dormme.app | *Android/ IOS Development, React Native, Next.js, Tailwind CSS, Firebase*
- Developed a mobile app and web-app with two co-founders to assist incoming students in finding roommates and subleasing/housing in San Luis Obispo. Partnered with Cal Poly, attracting over 300 users

Minecraft Server | *AWS, EC2, Lambda, python boto3, Route53,*
- Hosted a Minecraft server on AWS EC2 with a custom domain via Route53, and implemented an AWS Lambda function to reduce costs by 60% by automatically starting the EC2 instance on demand instead of running it 24/7

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, Typescript, HTML, CSS, MySQL, Racket, Terraform
Frameworks/ Libraries: React, Next.js, React Native, Tailwind CSS, Framer Motion, Pandas
Technologies: Git, GitLab, GitHub, AWS, Firebase, JSON, VS Code, Figma, MongoDB, Linux