WESLEY WONG

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EDUCATION

San Jose State University — San Jose, CA
Bachelor of Science in Software Engineering — *Expected May 2027*
- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Software Engineering

EXPERIENCE

Bloxshield — Remote
Software Engineering / DevOps Intern — *June 2025 – Present*
- Deployed an AWS ECS Fargate cluster (5+ services) using Terraform, with fully automated Github Actions CI/CD
- Processed 2M+ Roblox joins/day via FastAPI + SQS AI inference avatar filter, auto-blocking 3.5K violators daily

SJSU Software and Computer Engineering Society — San Jose, CA
Software Engineering / Site Reliability Engineering Intern — *Dec 2023 – Present*
- Taught undergraduates about site reliability engineering (SRE) practices using Docker, Prometheus, and Grafana
- Converted Grafana JSON dashboards to Python grafanalib dashboards-as-code, saving 10 hours a month on configuration
- Configured Prometheus AlertManager and Grafana dashboards to implement monitoring and alerting for 3+ services
- Built a custom GitOps solution for docker-compose using FastAPI, improving reliability and reducing deploy times by 80%

Ego (YC W24) — San Francisco, CA
Software Engineering Intern — *Dec 2024 – Feb 2025*
- Implemented Cartesia AI Python pipeline in video games to improve speech patterns and increase player retention by 50%
- Created a QA agent using Claude 3.5 Sonnet computer control to automate testing, enhancing error detection for clients

SJSU College of Engineering — San Jose, CA
Software Engineering Intern — *May 2024 – Aug 2024*
- Built a printer SNMP monitoring tool with FastAPI used by 300+ people, reducing mean time to detect (MTTD) by 50%
- Built a Grafana dashboard to visualize request latency and device statuses, enabling monitoring and readability
- Defined Prometheus AlertManager rules and sent alerts to a Discord server for printers not responding to SNMPwalk

PROJECTS

TimescaleDB Monitoring | *Python, Grafana, Prometheus, TimescaleDB, PostgreSQL, SQL, psycopg2* — August 2025
- Implemented parallel batch SQL copying using multithreading and psycopg2, improving ingestion times by 80%
- Engineered Grafana dashboards using PromQL with Node Exporter, Postgres Exporter, and cAdvisor, to capture bottlenecks
- Integrated alert rules in Prometheus Alertmanager to proactively detect excessive disk I/O usage and query latency

LangLearning | *Python, AWS, React, TypeScript, DocumentDB, Google OAuth2.0, Terraform* — May 2025
- Created a custom search and tokenizer using a prefix trie to quickly find and split traditional and simplified Chinese text
- Implemented blue-green deployments via Terraform and CodeDeploy, ensuring zero-downtime releases and updates
- Deployed services on AWS ECS with Fargate for serverless scalability using Terraform, for a 99.999% uptime

ResumeReview | *Python, PostgreSQL, Kubernetes, AWS, Docker, Prometheus, Terraform* — March 2025
- Engineered a scalable microservices backend for a resume review social media platform using FastAPI and Kubernetes
- Optimized EKS costs by 50% by provisioning EC2 Spot Instances with Karpenter and Terraform for cost-efficient scaling
- Implemented Prometheus metrics to capture SLIs including request latency and error rates, enabling actionable insights

DreamScape | *Python, FastAPI, Unity, C#, Pulumi* — Nov 2024
- Developed a FLUX.1-schnelle and TripoSR model pipeline on a FastAPI server, reducing generation time by 85%
- Provisioned AWS S3 buckets with Pulumi and used boto3, optimizing asset retrieval using pre-signed URLs
- Recognized for Best Use of AWS & AI in XR/VR at Immerse the Bay 2024

TECHNICAL SKILLS

Languages: Python, Go, JavaScript, TypeScript, Java, Bash, SQL
Frameworks: FastAPI, Flask, Express.js, React, Node.js, Next.js
Tools: Prometheus, Grafana, OpenTelemetry, AWS, Kubernetes, Docker, Github Actions, Terraform, Pulumi, Nginx
Databases: MongoDB, SQLite, Redis, PostgreSQL, TimescaleDB, AWS DocumentDB, AWS RDS, AWS DynamoDB