

# Marty Ross

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## Career Summary

- ❖ Recent experience SRE / enterprise reliability & performance management arena
- ❖ Using golang backend / Typescript on NodeJS / React / Angular Frontend within Serverless Framework
- ❖ More than ten years experience with subsystem and component architecture, implementation and evolution
- ❖ Dedication to clear requirements, code readability, testability and countering software entropy across domains
- ❖ Reputation for providing excellent customer service and mentoring other team members through a growth mindset

## Skills

- ❖ Golang, Java, Python, Typescript
- ❖ Microservice Integration using REST, gRPC, Event Bus APIs & Docker & Kubernetes Container Orchestration
- ❖ TDD using "Testing Pyramid" (Fowler; e.g. with golang tests, Junit, Jest)
- ❖ Persistence: NoSQL (DynamoDB, Cassandra, Kafka KTable, Redis), SQL (Oracle/PL/SQL, MySQL, Postgres)
- ❖ Message Busses: Kafka, RabbitMQ, Mulesoft, SQS/SNS/EventBridge
- ❖ Serverless: AWS Lambdas, Cloud Functions, Step Functions, Workflows

## Standards / Frameworks

- ❖ Authentication/Authorization/Access: OAuth 2.0, OpenID, LDAP, AWS IAM/Cognito
- ❖ Network: TCP/IP, OSI 7-Layer
- ❖ Schemata: XML, HTML, gRPC
- ❖ Large Language Models: Langchain, OpenAI, Gemini

## Professional Experience

### Contract Work (San Francisco, CA) 03/2023 - Present Independent Consultant

- ❖ Created and contributed to open-source projects related to Large Language Models
- ❖ Helped use Service Level Indicators & Objectives (SLI/SLO) to establish enterprise-wide error-budget policies

### Crunchyroll (San Francisco, CA) 04/2021 - 02/2023 Sr. Software Engineer

- ❖ Increased code coverage by 20% across critical legacy service codebases, resulting in greater stability and confidence
- ❖ Optimized database access plans increasing service throughput by 20- 50%
- ❖ Hastened resolution of "sev 1" issues through enriched service instrumentation feeds to dashboards
- ❖ Mentored junior developers through peering on solutions and giving thoughtful code reviews

### Self Employed (Berkeley, CA) 05/2020 - 02/2021 Part Time Consultant

- ❖ Embraced several paid and unpaid opportunities in the first year of the COVID epidemic:
- ❖ Created a new data processing pipeline using Spring Batch toolset
- ❖ Maintained and enhanced a non-profit website using WordPress

### Revinate (San Francisco, CA) 04/2018 - 04/2020 Staff Engineer

- ❖ As a key contributor of the Data Integrations team, responsible for ETL (extract, transform, load) of customer data
- ❖ Created extendable "script plug-in" service to retrieve customer data across sources, empowering Field Technicians
- ❖ Assisted on-boarding through mentoring new team members

### Navis (Oakland, CA) 10/2011 - 12/2017 Staff Engineer

- ❖ Architected Equipment Control Interface (ECI) facade API to control Automated Guided Vehicles and Cranes
- ❖ Reduced MTTR by 15% through instrumentation providing visualized traces of protocol interactions with external equipment
- ❖ Wrote CI/CD tooling and test coverage reporting as an avid champion of test driven development (TDD)

## Education / Training

- ❖ **Bachelor of Arts (BA)**  
**University of California (Los Angeles, CA)**  
**Economics, Psychology** (with emphasis on econometrics and statistics)