

Rohit Maruri

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EDUCATION

San Francisco Bay University | *B.S. Computer Science* | *GPA: 4.0* | *Present*

- Relevant focus: data structures and algorithms, systems design, software engineering, AI infrastructure, and security.

EXPERIENCE

Undergraduate Researcher | *AWS Trainium and Neuron Research* | *Ongoing*

- Building neural-network systems in C++ and developing machine-learning and convolutional neural-network models in Python as part of an ongoing effort to create an image model that predicts outcomes from user inputs.
- Advancing the research system through model design, experimentation, training, and evaluation while exploring AWS Trainium and Neuron for efficient AI workloads.

Vivedly Labs Inc. | *Founder / Product Lead*

- Built an AI desktop coworker MVP in three weeks, earning acceptance to Founder Institute Silicon Valley and support from the NVIDIA Inception Program.

The Clarion | *Software Engineer Intern*

- Strengthened internal software operations by troubleshooting systems, managing access controls, maintaining web infrastructure, and supporting reliable technology delivery for the student newspaper.

Dominion Academy of Dayton | *IT Assistant*

- Maintained device, operating-system, network, and security operations to support reliable day-to-day technology use.

PROJECTS

DOCKET | *Next.js, React, TypeScript, FastAPI, Python, Bedrock AgentCore, Aurora DSQL, S3 Vectors, BM25*

- Unified 6 civic information sources into a neighborhood platform for Fremont residents by combining records, news, incidents, places, posts, and issue voting.
- Improved answer traceability through source-grounded retrieval and citation verification.

Blast Radius | *Python, FastAPI, HydraDB, OpenCypher, SQLite, Docker*

- Reduced npm supply-chain analysis to 3 core operations - graph traversal, semver resolution, and OSV correlation - by modeling transitive dependencies as an actionable graph.
- Extended the system into deployed monitoring and API surfaces with signed webhooks.

Airlock | *TypeScript, PostgreSQL, MCP, CI/CodeQL, Testing*

- Prevented unverified production changes by executing proposals against a shadow database, verifying checksums, supporting rollback, and withholding approval until proof passes.
- Reached 347 documented passing tests and zero production-write tools for agents by adding policy gates and tamper-evident ledgers.

Semantic Output Cache | *Python, JavaScript, PostgreSQL, pgvector, Embeddings, SHA-256*

- Expanded cache-hit coverage beyond exact text matches by combining embeddings, cosine similarity, and SHA-256 identity.

TECHNICAL SKILLS

Languages: C++ (extensive current research experience), Python, TypeScript, JavaScript, SQL

Systems & Data: Distributed systems concepts, PostgreSQL, Aurora DSQL, SQLite, pgvector, graph databases, semantic retrieval, BM25

Engineering: React, Next.js, FastAPI, Node.js, Electron, Docker, Git, GitHub Actions, CI/CodeQL, MCP tooling

Cloud & AI: Amazon Bedrock AgentCore, S3 Vectors, AWS Trainium/Neuron research, LLM systems, embeddings