

# Marl Jonson

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## EDUCATION

### San Jose State University

Bachelor of Science in Computer Science

Expected Graduation: May 2027

San Jose, CA

- **Coursework:** Computer Systems, Data Structures & Algorithms, Processing Big Data, SQL Application Design, ArcGIS Story Maps
- **Organizations:** Apple Next-Gen Innovators Program, PM Club, Network Engineering Technology Society, Responsible Computing Club

## EXPERIENCE

### San Francisco Bay Area Rapid Transit District

Product Management & Transit Innovation Intern

Apr. 2025 – Present

Oakland, CA

- Conducted 15+ interviews to define use cases for a simulation game; created scalable training materials, partner-ready SOPs
- Pinpointed 10+ friction points in user onboarding flow; applied data-driven analysis to optimize workflow efficiency
- Developed Microsoft Office dashboards and reports; managed an Agile workflow to align cross-functional teams/stakeholders
- Presented deliverables, use cases, actionable recommendations, and process improvements to senior BART leadership

### CodePath

Cybersecurity & Web Development Program Participant

Sep. 2025 – Present

Remote

- Received hands-on lab training for cybersecurity topics: access control, networking, malware, social engineering, and privacy
- Completed cybersecurity coursework using Azure VM; presented a PowerPoint presentation about white-hat malware defense

### SJSU Responsible Computing Club

Full-Stack Web Development Ambassador

Jun. 2025 – Present

San Jose, CA

- Built a full-stack club website utilizing GitHub pull requests for version control and Jira tickets for development tasks
- Developed responsive React.js/Tailwind CSS web pages; created Figma wireframes and user flows for UI/UX prototyping
- Facilitated weekly Agile sprints and stand-ups to accelerate design-to-development handoff by 20%

### NASA L'SPACE Program

Technology Proposal Authorship & Review Fellow

May 2025 – Aug. 2025

Remote

- Led cross-disciplinary meetings and document collaboration for a NASA engineering proposal (cold welding in robotics)
- Applied structured writing and data presentation strategies using Microsoft Excel, Word, PowerPoint, and Teams
- Produced clear technical documentation using Word, Excel, and proposal templates for non-technical audiences

## PROJECTS

### Cloud-Native Transit Event Pipeline

| Java, Spring Boot, Kafka, Azure Event Hubs, Docker, GTFS (General Transit Feed Specification)

- Architected an end-to-end streaming pipeline on Azure to ingest and process GTFS Realtime vehicle telemetry into a cloud-native system
- Developed Kafka producers to deserialize Protobuf-encoded transit feeds and consumer services to perform live data validation and summary generation for system-wide monitoring
- Leveraged Azure Event Hubs and Docker for containerized deployment, ensuring high availability and seamless horizontal scaling under peak message throughput
- Integrated structured logging with SLF4J/Log4j2 and built a Flask dashboard to visualize live vehicle positions and pipeline health metrics, reducing debugging time by 30%

### Bay Area Transit Delay Dashboard (De Anza WiCS Hackathon)

| Python, Flask, React, Excel, GTFS Realtime

- Developed an interactive dashboard to visualize real-time Bay Area transit delays using GTFS Realtime data
- Built a Flask backend in Python to process, clean, and serve transit data through API endpoints to a React frontend
- Performed data analysis and aggregation in Python and Excel to generate actionable insights for dashboard users

## TECHNICAL SKILLS

**Languages:** Python, Java, SQL, TypeScript/JavaScript, C, MIPS32

**Frameworks & Libraries:** Flask, React, Spring Boot, NumPy, Pandas

**Tools & Platforms:** Azure, Docker, Kafka, GTFS/GTFS Realtime, SLF4J/Log4j2, Git, GitHub, Visual Studio Code, IntelliJ IDEA

**Productivity:** Microsoft Excel (pivot tables, macros), Word, PowerPoint, Jira, Slack, Trello, Google Workspace

**Certifications:** Microsoft 365 Certified: Fundamentals (MS-900) — planned March 2026

Microsoft Certified: Azure Fundamentals (AZ-900)

Microsoft Certified: Azure Data Fundamentals (DP-900) — planned March 2026

Lean 101: Intro to Lean Process Improvement @ BART