

Matthias Masiero

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PROFILE

Computer Science student at Santa Clara University with a strong foundation in coding and a passion for turning data into insights. Experienced in machine learning and artificial intelligence, predictive modeling, software development, AWS cloud architecture, and currently expanding into quantum computing through projects with IBM Quantum and Qiskit. Passionate about building scalable, intelligent systems that bridge theory with real-world impact.

EDUCATION

Bachelor of Science in Computer Science, Minor in Physics

Santa Clara University

2028

Santa Clara, CA

SKILLS

Programming Languages: Python, Java, C++, Swift, HTML, CSS, JavaScript, SQL, TypeScript, OCaml (partial knowledge), Qiskit, OpenQASM (learning)

Tools & Technologies: AWS (Lambda, EC2, S3, SageMaker, CloudWatch, API Gateway, Amplify), Docker, CI/CD Pipelines, TensorFlow, Bash, Git, GraphQL, IBM Quantum Platform, AI Agents (Amazon Q, LangChain, LlamaIndex, Auto-GPT, Claude)

PROJECTS

2025 AWS HACKATHON WINNER - DEVANGEL (DEVOPS INCIDENT DASHBOARD)

- Built a real-time incident analysis platform using AWS CloudWatch Logs, Lambda, Step Functions, API Gateway, Bedrock, and EC2 to aggregate metrics and detect and respond to anomalies across production systems.
- Integrated an LLM-powered AI agent (Amazon Q for GitHub) that autonomously generates code-level fixes and opens pull requests when incident root causes are detected.
- Designed a scalable AWS architecture enabling autonomous debugging, intelligent alerting, and DevOps automation.

SENIOR DESIGN PROJECT - AUTOMATED HEAT-SENSING DRONE

- Collaborated on a team as a freshman to develop a drone system that autonomously detects and classifies heat signatures in data centers.
- Responsible for coding key functionalities, including drone navigation, machine-vision and thermal-image processing.

REWARD POINTS MANAGEMENT SYSTEM

- Noticed my teacher was manually tracking student reward points and initiated development of a web-based management system to automate the process.
- Designed a Flask application with a SQLite database to store, update, and visualize student reward data.
- Met regularly with my teacher to understand her specific needs and implemented her input to create a user-friendly system tailored to her requirements.
- The platform remains actively used by Ridge High School Computer Science classes, benefiting all students.

EXPERIENCE & LEADERSHIP

Sports Science Internship, Santa Clara University Athletic Program

- Designing a machine learning model analyzing Catapult tracking data to predict and prevent non-contact injuries.
- Engineer feature-extraction pipelines and apply regression and classification algorithms to optimize training loads.
- Collaborating with trainers and data scientists to refine predictive models for injury prevention and recovery, targeting a 70% reduction in non-contact injuries.

ACM Club Board Member

- Board member of the largest computer science club on campus, helping lead and organize weekly events.
- Plan and run two major hackathons each year, with over 350 participants and multiple guest speakers.

Curriculum Development, Advanced Topics in Computing / Honors Computer Science Principles

- Identified a significant gap in our high school's computer science curriculum, especially in data science.
- Successfully advocated to administration and secured Board of Education approval for two advanced courses.
- Collaborating with teachers to develop curricula, launching courses for the 2026-2027 academic year.

BrainSTEM, Instructor

- Volunteered to teach robotics and CS to middle school students, introducing programming concepts.
- Developed lesson plans and hands-on activities for 25 students per class to engage them in STEM learning.