Nicolas Randazzo

San Jose, CA | 408-931-5643 | nicmrandazzo@gmail.com | linkedin.com/in/nicolas-randazzo

EDUCATION

University of California Davis — Davis, CA
Master of Science in Computer Science — *Sep. 2024 – Jun. 2026*

Sonoma State University — Rohnert Park, CA
Bachelor of Science in Computer Science — *Aug. 2020 - May 2024*

EXPERIENCE

Software Engineer Intern — Oct. 2023 - Sep. 2024
County of Sonoma, ISD — *Santa Rosa, CA*

- Migrated 4 legacy Access systems (10% of team portfolio) into ASP.NET web apps; optimized SQL Server queries to reduce reporting runtime by 30% across 50K+ daily records.
- Improved SQL query performance by 30% in production databases, accelerating data delivery for internal reporting tools used across multiple departments.
- Authored onboarding and maintenance documentation for 3+ business applications, reducing knowledge-transfer time for new developers and support staff.
- Managed production and development environments with Remote Desktop and TFVC, supporting multiple deployments and troubleshooting for 3 cross-functional teams.

Computer Science Tutor — Aug. 2022 - Oct. 2023
Sonoma State University — *Rohnert Park, CA*

- Tutored 30+ students in C++; focused on problem-solving strategies and debugging techniques.
- Led individual and group sessions covering data structures, recursion, and algorithmic thinking.
- Translated complex concepts into accessible explanations using diagrams and live coding examples.

Programming Instructor — May 2023 - Aug. 2023
Integem Inc. — *Palo Alto, CA*

- Taught introductory Python and AR programming to K–12 students in a classroom-style setting.
- Guided students through project-based learning to build interactive AR experiences.

PROJECTS

TempCheck: IoT Temperature Pipeline

- Built an end-to-end IoT pipeline to collect, transmit, and store temperature/humidity data using a Bosch BME280 sensor and Azure IoT Hub.
- Developed REST APIs with Flask for ingesting sensor data; stored time-series records in SQLite/PostgreSQL.

Custom Network Attached Storage (NAS) | Ubuntu Server, Samba

- Designed and assembled a secure NAS solution to facilitate centralized file storage and sharing across multiple devices.
- Configured Ubuntu Server and Samba to enable cross-platform file sharing for Windows and macOS clients.
- Established user access controls, ensuring data security and integrity.
- Implemented automated backup scripts to protect against data loss.

TECHNICAL SKILLS

Languages: C++, Python, SQL, JavaScript, C#, R
Frameworks: React, Node.js, KoaJS, ExpressJS, Material-UI, ASP.NET
Developer Tools: Git, Docker, VS Code, Visual Studio, SSMS, SSRS, Google Cloud Platform