

# Nicolas Randazzo

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## EDUCATION

### University of California Davis

*Master of Science in Computer Science*

Davis, CA

Sep. 2024 – Jun. 2026

### Sonoma State University

*Bachelor of Science in Computer Science*

Rohnert Park, CA

Aug. 2020 - May 2024

## EXPERIENCE

### Software Engineer Intern

*County of Sonoma, ISD*

Oct. 2023 - Sep. 2024

*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

*Sonoma State University*

Aug. 2022 - Oct. 2023

*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

*Integem Inc.*

May 2023 - Aug. 2023

*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

### Private Estate Sale Management Platform | *JavaScript, Netlify, Google Cloud Platform, Auth0*

- Designed and deployed a full-stack web application hosted on Netlify integrating Google Drive, Google Sheets, and Auth0 implementation.
- Automated folder and spreadsheet creation with Netlify serverless functions, reducing manual setup from hours to minutes.
- Developed admin UI in JavaScript to enable secure data management by non-technical staff.
- Collaborated directly with employees and business owner to identify pain points, propose solutions, and align product features with operational needs.

### 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.

## 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