

Nicolas Randazzo

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SUMMARY

Current Master's graduate student at UC Davis with internship experience in software development primarily interested in Data Engineering and Database Management. Actively seeking internships in the San Francisco Bay Area and Sacramento Area in Data Engineering.

EDUCATION

University of California at Davis
Master of Science in Computer Science

Davis, CA
Sep. 2024 – May 2026

Sonoma State University
Bachelor of Science in Computer Science

Rohnert Park, CA
Aug. 2020 – May. 2024

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

WORK EXPERIENCE

Software Engineer Intern
County of Sonoma ISD

Oct. 2023 – Sep. 2024
Santa Rosa, CA

- Enhanced database performance by optimizing query structures and back-end logic, reducing processing times by 27% and improving overall system efficiency.
- Modernized legacy internal systems by transforming existing tools into scalable and user-friendly web applications, resulting in streamlined workflows and improved accessibility.
- Collaborated directly with end-users and stakeholders to gather requirements, address issues, and deliver solutions tailored to client needs, ensuring high satisfaction and system usability.

Computer Science Tutor
Sonoma State University

Aug. 2022 – Oct. 2023
Rohnert Park, CA

- Supported over 30 students in lab sessions by debugging and troubleshooting code, enabling them to successfully complete projects and homework.
- Independently managed lab sessions, facilitating group discussions and providing individual guidance to 10-15 students per session to enhance their understanding of programming concepts.
- Simplified complex programming topics through clear explanations, visual aids, and step-by-step guidance, improving student comprehension and confidence.

Programming Instructor
Integem Inc.

May 2023 – Aug. 2023
Palo Alto, CA

- Taught groups of 8 K-12 students the basics of Augmented Reality (AR) using proprietary company software.
- Instructed students in Python fundamentals, guiding them in developing AR projects.

PROJECTS

Network Attached Storage (NAS) | Ubuntu Server, Samba

- Designed, implemented and built hardware for 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.
- Conducted performance testing to ensure optimal file transfer speeds and reliability.

Python Language Interpreter | C++

- Created a Python Interpreter using C++ to parse 70% of the Python language and base uses.
- Successfully ran code of varying complexity ($O(1)$ to $O(n \log n)$ time) as well as recursive code.