

NICOLÁS CUENCA

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Education

University of California, Los Angeles

Bachelor of Science in Computer Science

Aug. 2022 - Dec. 2024

Los Angeles, CA

Pasadena City College

Associate's in Engineering and Technology and Liberal Arts

June 2022

Pasadena, CA

Relevant Coursework

- Data Structures
- Software Engineering
- Programming in C++
- Algorithms and Complexity
- Operating Systems Principles
- Computer Systems Architecture
- Computer Network Fundamentals
- Deep Learning for Computer Vision
- Fundamentals of AI

Experience

Arcadia Unified School District

Summers of 2018, 2019, 2022

IT Support Intern

Arcadia, CA

- Performed system updates, resets, and maintenance on Chrome OS devices; supported users with login issues and general troubleshooting.
- Logged and registered over 1000+ Chromebooks across the district using Arduino-based systems; supported hardware deployment and inventory tracking.
- Replaced hardware components such as screens and batteries; collaborated with IT staff to complete repairs and device preparation.
- Installed drivers and troubleshoot network connectivity for printers and scanners across multiple school offices.
- Maintained and tested AV systems including projectors, microphones, and speakers used in classrooms and school-wide events.

Projects

Blü (iOS App) | *SwiftUI, Firebase, MapKit, SwiftData*

February 2025 – Present

- Built a fully functional iOS app for group expense-splitting used by **X+** users, helping groups accurately split costs during social hangouts.
- Integrated Firebase Authentication and Firestore for managing user accounts, session-based access control, and secure real-time data syncing.
- Designed SwiftUI interfaces for creating sessions, viewing expense summaries, and settling up balances between users.
- Implemented modular navigation logic and SwiftData caching to reduce network usage by **Y%**.
- Added MapKit to enable hangout location tagging and visibility filtering; enhanced user privacy through scoped session roles.
- Tested all major flows (auth, input, balance resolution) with unit tests and user testing across **Z+ devices**.

Credential Vault CLI Tool + Flask GUI | *Python, Cryptography, CLI, Secure Storage*

January 2025 – Present

- Designed and implemented a full-stack password manager with a Flask backend and Bootstrap-based web UI.
- Integrated AES-256 encryption (PBKDF2-HMAC-SHA256) to securely store credentials offline; no cloud dependencies.
- Built features including search, add/edit/delete, clipboard copy, audit logging, dark/light mode toggle, & TXT export.
- Implemented TOTP-based 2FA (Google Authenticator) with QR provisioning and full session management.
- Achieved 90%+ code coverage through unit testing; set up GitHub Actions + Codecov for CI and quality tracking.
- Structured codebase with modular design for vault logic, CLI, and Flask GUI components.

Open Source Contributions

Credential Vault CLI Tool – Pull Request Merged

April 2025

- Submitted and merged GitHub pull request on credential vault project: improved AES encryption implementation and CLI documentation.
- Modularized codebase and implemented argparse logic for flexible user commands and future extensibility.
- Collaborated with project maintainers to address feedback, close issues, and ensure codebase security compliance.
- Demonstrated open-source collaboration, secure coding best practices, and Git workflow proficiency.

Technical Skills

Languages: Python, C/C++, Swift, Java, JavaScript, Bash, HTML/CSS, SQL

Frameworks/Technologies: SwiftUI, Firebase (Auth, Firestore, Storage), MapKit, React, Node.js, Docker, MongoDB

Libraries/Tools: cryptography (Python), Pandas, NumPy, scikit-learn, Git/GitHub, VS Code

Other Tools: Zoom, Slack, Wordpress