

CYRUS ASASI

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EDUCATION

UNIVERSITY of CALIFORNIA, LOS ANGELES (UCLA)

Master of Music in Clarinet Performance

Expected Jun. 2028

Bachelor of Science in Computer Science

Jun. 2026

Bachelor of Music in Music Performance (Clarinet)

Jun. 2026

WORK EXPERIENCE

MAXREWARDS

Jun. 2025 – Sep. 2025

Software Engineering Intern — Reverse Engineering

JavaScript, Safari Web Extensions, WebViews, HTTP, Git

- Reverse-engineered authenticated data-access flows for Bank of America, Chase, Fidelity, and Capital One through network-traffic analysis and undocumented endpoint discovery, delivering resilient financial-data connectors.
- Designed and shipped an iOS Safari Web Extension and deep-linked browser handoff that moved Chase authentication from embedded WebViews into Safari when F5 Shape protections blocked the flow, then returned users to the mobile app with session state preserved.
- Implemented API- and WebView-based connectors with automated tests, session management, and keep-alive heartbeats; redesigned backend schemas to normalize frequently changing bank payloads.

TAIKI

Jun. 2024 – Sep. 2024

Software Engineering Intern

Python, Django, Dart, Flutter, PostgreSQL

- Reverse-engineered 26 bank and financial-service APIs to automate secure tax-document extraction.
- Built and shipped a cross-platform Flutter application for iOS and Android and a Django client dashboard with streamlined document-retrieval workflows.
- Implemented 26 extraction integrations in Dart and co-designed the Django API and PostgreSQL architecture supporting connector updates and evolving financial-data formats.

SELECTED PROJECTS

NEUTRA

Sep. 2019 – Dec. 2021

Moderation and analytics bot used by 500,000 users

Python, PostgreSQL, FFmpeg, Git

- Built a 320-command moderation and analytics platform used by 500,000 users, including configurable auto-moderation, server analytics, and music playback with custom FFmpeg effects.
- Designed the PostgreSQL schema and data workflows powering message, user, and security insights, and documented the platform's complete command set.

SUNSET

Feb. 2025 – Present

Automated UCLA Recreation reservation platform

Python, Playwright, HTTP, systemd, Vultr

- Reverse-engineered UCLA Recreation's authenticated availability and reservation workflows to automate tennis and pickleball bookings at the 72-hour release window.
- Built and deployed a multi-user Playwright scheduler with persistent sessions, keep-alive monitoring, sub-second retries, structured logging, and automatic process recovery.

KEYCAD

Sep. 2022 – Mar. 2023

Image-to-CAD pipeline for generating functional 3D-printable key models

Python, OpenCV, OpenSCAD, Git

- Created 19 parameterized OpenSCAD key-blank models from manufacturer specifications, including Schlage, Kwikset, and Medeco profiles.
- Built a Python and OpenCV pipeline that measured biting positions and depths from photographs, applied precision cuts to the corresponding key-blank model, and generated dimensionally accurate STL files suitable for brass 3D printing as functional duplicate keys.

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2026 – Present

Interactive software-engineering portfolio

Astro, Svelte, TypeScript, Canvas, CSS

- Built and deployed a statically generated Astro portfolio with selectively hydrated Svelte components, typed content, a command palette, and interactive seasonal Canvas animations.
- Implemented responsive layouts, reduced-motion accessibility, path-safe deployment, and an automated GitHub Actions workflow for a custom-domain GitHub Pages site.

RESEARCH EXPERIENCE

UCLA COMPUTER SCIENCE — PROF. KONSTANTINOS KALLAS

Mar. 2025 – Jul. 2025

Undergraduate Researcher

Serverless Computing, Benchmarking, Systems Research

- Investigated approaches for reducing serverless cold-start latency through literature review and developed preliminary benchmarks for measuring function initialization overhead.

TECHNICAL SKILLS

LANGUAGES: Python, C, JavaScript, TypeScript, Dart, SQL, HTML/CSS

TECHNOLOGIES: Django, Flutter, PostgreSQL, Astro, Svelte, Playwright, OpenCV, OpenSCAD, Git