YAMEEN SEKANDARI

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EDUCATION

Stanford University   **Expected Graduation: June 2027**
B.S. in Computer Science, Minor in Design   *Palo Alto, CA*

- **Relevant Coursework:** Programming Methodology, Programming Abstractions, Computer Organization and Systems, Data Structures and Algorithms, Probability for Computer Science, Linear Algebra
- **Activities and Societies:** ASES Entrepreneurship Society, Stanford Tree Hacks, Stanford Muslim Entrepreneurs

EXPERIENCE

Stanford PinCS (Pedagogy in CS) Lab   August 2025 - Present
Undergraduate Researcher   *Stanford, CA*

- Built interactive CS modules (cell visualizer, fractals, cryptography, probability, music) in React + Canvas/Tone.js with Prof. Chris Gregg, translating functions/recursion/ciphers/probability into classroom-ready simulations.
- Shipped accessible, reliable UIs (ARIA, keyboard nav, input hardening) with clear docs that cut instructor setup friction while maintaining smooth performance on low-spec devices.

Forum Mobility   June 2025 - September 2025
Software and Data Intern   *San Francisco, CA*

- Designed a Python and Selenium crawler monitoring 100+ competitor EV-charging sites and client locations; delivered weekly market intelligence 5 times faster, with automated alerts on pricing, uptime, and openings.
- Increased lead throughput by 35% by engineering ETL jobs that enrich 5,000 fleet prospects with ESG scores, energy-compliance flags, and grant eligibility, synchronizing to Salesforce.
- Launched an auto-refreshing grants database surfacing 300+ climate incentives ($90M) through scheduled scraping and parsing workflows; enabled outreach on new matches, with filters by state, industry, and application window.

Takenaka Partners   March 2025 – June 2025
Finance Software Intern   *Los Angeles, CA*

- Designed and shipped a SQL-backed analytics platform for 500+ cross-border M&A deals; surfaced size, sector, and ownership structure, cutting pitch-prep time by 30%, serving corporate and PE clients in Japan.
- Built an interactive React dashboard for trading and transaction comps with filters for sector and geography.
- Normalized Capital IQ exports into an indexed relational schema; improved query latency by 60% and reduced model-validation errors by 75%, using dbt and Postgres materialized views.

PROJECTS

Daily Apple: News Gamification | *Swift, SwiftUI, SpriteKit, Combine, OpenAI LLM, Reuters API*

- Architected an enum-based state machine and custom tab bar (no NavigationStack) across 10+ modules; flattened the view hierarchy and enabled $O(1)$ navigation, improving performance and maintainability.
- Built the engagement layer, SpriteKit mini-games + level-gated quiz engine with live XP, hearts, and apples; designed and animated 20+ characters and streak mechanics, boosting retention and LTV.
- Integrated Reuters feeds with on-device OpenAI summarization to generate bias-tagged article cards and adaptive quizzes; cut average read time to ¡3 min for a 300+-user beta while preserving on-device privacy.

Rondo: AI Music Teacher for Classical Performance | *Python, Docker, FastAPI, Basic Pitch, MIDI & MusicXML*

- Built an AI music teacher that ingests score and student recording, transcribes to note events, converts score to MIDI, aligns performance to score, and scans wrong notes and timing in Verovio, improving detection accuracy.
- Added PDF-to-MusicXML OMR, adjustable tolerances, and automated practice guidance that turns error patterns into specific drills with A/B loop and exports, reducing diagnosis from a full listen to a review of flagged measures.

TECHNICAL SKILLS

Languages: C++, Python, Java, JavaScript, TypeScript, HTML/CSS, SQL.
Frameworks/Tools: SQL/Postgres, AWS, Firebase, React.js, Express/Node.js, Selenium, Tailwind, Docker

ADDITIONAL

Interests: Classical Orchestral Composition, Jazz Piano, Soccer, Beating My Brothers in Pickleball.
Natural Languages: English (Native), Farsi (Native), Spanish (Bilingual)