# TUCKER BREWER

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## EDUCATION

**University of California, Irvine**
B.S. in Computer Science, Minor in Statistics — Expected Graduation: December 2027

- GPA: 3.83 | Dean's List (6/6 quarters)
- Relevant Coursework: Machine Learning | Data Structures & Algorithms | SQL/Databases

## WORK EXPERIENCE

**Toast, Software Engineering Intern,** Tables & Orders Workflows Team — Boston, MA | June 2026 – August 2026
*Kotlin, Jetpack Compose, Android*

- Took a new POS customer lookup screen from 6% rollout (halted 3 times) to $>$90% by restoring autocomplete, fixing keyboard and scrolling bugs, and clarifying flows
- Expanded UI tests to every flow on the screen, including the old regressions, and grew screenshot tests from 3 to $\sim$50 so future changes don't break customer lookup workflows again
- Cut customer and loyalty lookup from two searches to one by adding a background loyalty lookup after each customer search and auto-linking the account on exactly one match
- Wrote all new UI in Jetpack Compose, migrated parts of legacy screens, and added a responsive AlertBanner to Toast's Compose brand kit, used for all new POS banners

**Assistant Tennis Coach,** Rancho Colorados Swim and Tennis Club — Lafayette, CA | Fall 2023 – Fall 2025
**Assistant Tennis Coach,** Orindawoods Tennis Club — Orinda, CA | Summer and Fall '24, '25
**Private Tennis Instructor,** Self-employed — June 2024 – September 2025

## PROJECTS

**BirdieEyeView: Golf Scorecard Scanner** – birdie-eye-view.com | 2-person team — February 2026 – Present
*Python, TypeScript, React, FastAPI, Mistral OCR, Gemini*

- **Backend:** FastAPI + PostgreSQL with an OCR + LLM extraction pipeline that scans a variety of scoring formats and card layouts in $\sim$15 seconds with $>$90% accuracy
- **Frontend:** React/TypeScript app for web and mobile where users photograph a scorecard, review the extracted scores, and explore handicap trends, round stats, and more insights
- **Tests:** Unit tests on backend and view-model logic, UI tests on user flows, and screenshot tests on screens and brand kit components
- **CI Pipeline:** 5 AI review bots in GitHub Actions that check every PR, recheck their past findings, and open fix PRs, alongside lint and type checks, to build quickly with AI without sacrificing code quality

**Agonus** – AI Crypto Trading Competition Platform — October 2025 – February 2026
*Python, LangChain, TypeScript, React*

- Designed 8 AI trading agents with distinct strategies in LangChain, connecting custom math, research, and trade-execution tools
- Built multi-wallet connection for Coinbase Wallet, Phantom, and MetaMask

**Forty Two** – Multiplayer Texas Dominoes Game — 2026
*Python, Socket.IO, React*

- Wrote the game engine, handling complex edge cases across bidding, trick resolution, and scoring
- Built real-time multiplayer with server-side move validation across concurrent 4-player rooms

## TECHNICAL SKILLS

- **Languages:** Python | TypeScript | C/C++ | SQL | Kotlin
- **Frameworks & Libraries:** React | FastAPI | LangChain | Jetpack Compose

## CLUBS

**Technical Developer** for Blockchain at UCI — Irvine, CA | October 2025 – Present

- Build full-stack DeFi projects in teams; contribute across frontend, backend, and smart contract integration