

SEYED AMIRREZA SHAMS TALEGHANI

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Summary

Software Engineering intern candidate and UC San Diego Math–Computer Science student with hands-on experience shipping a web MVP in 3 weeks and leading testing to >85% coverage. Comfortable with data structures & algorithms, OOP, and systematic debugging; daily with Python, Java, C++, and JavaScript/HTML using Git/GitHub and basic CI. Known for reliability, clear communication, and writing clean, maintainable code that's easy to test and extend.

Skills

- Proficient: Python, Java, C++, JavaScript, HTML/CSS, Git/GitHub, Unit Testing (Jest, JUnit, pytest), CI (GitHub Actions), Data Structures & Algorithms, OOP, Debugging
- Working: SQL (PostgreSQL/MySQL), REST APIs/HTTP, Linux & Bash, Docker, Node.js/Express, React (basics), Browser DevTools
- Familiar: MongoDB, Redis (caching), Kafka (concepts), WebSockets, Concurrency/Threads, Profiling/Performance, OAuth
- Learning: TypeScript, Swift/SwiftUI
- Tools and Workflow: Git, GitHub, CI (basic), Testing (Jest, Puppeteer), Code Reviews, Stand-ups, Feature Flags
- Web/APP: CRUD flows, status pipelines, reminders/notifications, client-side persistence (localStorage), schema migrations (versioned)
- Quality and Reliability: Test design, coverage tracking, flake reduction, async/ready-signals, regression prevention
- Coursework Exposure: Operating Systems, Networking, Database Systems, Probability/Stats, Linear Algebra, Discrete Math/Combinatorics

Experience

Iran Alive Ministries — Software Engineering Inter | Omid Sabuki - Melissa, Texas | 03/2024 - 09/2024

- Shipped small features and fixes across the public website and an internal media portal; refactored legacy JS/CSS, implemented responsive components, and improved accessibility (semantic landmarks, labels, alt text) and Core Web Vitals on key pages.
- Built reliable form workflows (contact/prayer request/volunteer): client/server validation, basic rate-limiting & spam traps, and submission logging via REST APIs to email/Sheets—reducing dropped submissions and follow-up churn.
- Automated content operations with Python/Bash utilities for filename validation, checksum verification, and batch uploads.
- Added unit tests (Jest) for utility modules and introduced lint/format/test gates in CI; documented lightweight release SOPs so non-technical staff could publish updates with fewer errors.

Tech: JavaScript, HTML/CSS, Python, Bash, Git/GitHub, GitHub Actions, Jest, JSON/REST, (optional) Google Apps Script

Education and Training

University of California San Diego | San Diego, CA | 09/2025

Bachelors of Mathematics/ Computer Science And Engineering: Math/CS

University of California, San Diego (UCSD) — B.S. in Math–Computer Science Relevant coursework: Algorithms (CSE 101),

Data Structures & Systems (CSE 12/15L), Software Engineering (CSE 110), Cryptography (CSE 107), Linear Algebra (MATH 102), Probability/Statistics (MATH 114/180A)

Los Angeles Pierce College | Woodland Hills, CA | 06/2023

Associates of Computer Science: CS

Collin's Community College | Frisco, TX

Some College (No Degree): Business Management

Projects

Job Application Tracker (Academic Project) — UC San Diego | 10-person team

Tech: JavaScript, HTML/CSS, Git/GitHub, Jest, Puppeteer, GitHub Actions, localStorage, CI/CD

- Shipped a working MVP in 3 weeks used by classmates to track job/intern/volunteer applications.
- Owned core flows (create/edit/update records, status pipeline, reminders, submit/mark-done) and kept stand-ups/code reviews focused on unblockers.
- Led testing/CI to **>85%** coverage; reduced flake by adding async "ready" signals and backoff waits; prevented regressions via lint/format/test gates.
- Implemented schema **versioning/migrations** for localStorage; added deterministic IDs and a small state machine to block invalid transitions.

URL Shortener API

Tech: Node.js/Express, PostgreSQL, Docker, Jest, Supertest

- Built CRUD endpoints with validation, rate limiting, and click analytics; containerized with Docker and added CI for tests/lint.
- Wrote integration tests and a minimal admin CLI for bulk import/cleanup;

Accomplishments

Number one in the Kangaroo International Competition in Mathematics in city and 3rd in state, Isfahan/Iran.

Chess tournaments:

- 3 times individual state champion and player of the tournament.
- 2 times team champion and 1 time player of the tournament for school.

Languages: English - Farsi(Persian) - Turkish - Italian