

Shaun Jacob

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EDUCATION

The University of Texas at Arlington

May 2026

Bachelor of Science (Honors) in Computer Engineering

GPA 3.9/4.0

- Summa Cum Laude, Sabre Holdings Outstanding Professional CpE Student Award, IEEE Eta Kappa Nu (HKN) Scholar, Maverick Academic Scholar, Dean's List, inSTEM Scholar, Leadership Honors Program
- **Relevant Coursework:** Operating Systems, Algorithms & Data Structures, Quantitative Computer Architecture, IoT & Networking, Cybersecurity Systems Engineering, Computational Methods

EXPERIENCE

Full Stack Software Engineering Intern

October 2025 – Present

ZephyRad RIS Health Technologies

Dallas, TX

- Built patient onboarding, diagnostic reporting, and imaging-study tracking modules for a multi-tenant RIS using React, Redux, Node.js, Express, and MySQL.
- Developed REST APIs using Node.js and Express with tenant-aware role-based access controls, securing patient and imaging records across radiologist, admin, and clinical staff workflows.
- Reduced unnecessary re-renders and restructured shared Redux state to improve UI responsiveness by 40% across high-traffic dashboard views.
- Optimized MySQL schemas and queries for patient, study, and report entities to improve data retrieval across high-traffic dashboard views.

Software Developer Analyst

June 2025 – August 2025

Citigroup N.A.

Irving, TX

- Built an Angular task-management dashboard for cross-team workflow tracking, surfacing blockers, task ownership, and delivery status for engineering teams.
- Introduced Storybook-based component isolation testing for Angular UI components, enabling independent testing and debugging without running the full application.
- Resolved suppressed ESLint warnings across legacy codebases, catching unused state paths, unsafe optional access, and inconsistent component props before production release.
- Presented AI-assisted development workflows using GitHub Copilot and Gemini to 270+ engineers, helping teams evaluate and adopt practical AI tooling for enterprise software delivery.

Front-End Development Intern

June 2024 – July 2024

ALEC Engineering

Dubai

- Built and deployed a full-stack guestbook platform using React, Express.js, and MySQL, with JWT authentication, multi-step check-in flows, admin search, and record management.
- Created reusable frontend API service modules for form submission, record retrieval, and error handling, eliminating duplicated request logic across components.

PROJECTS

Cicada AML – Blockchain AML Investigation Platform | *FastAPI, React, PyTorch, Supabase* April 2026

- Built a full-stack blockchain AML investigation platform, enabling analysts to upload transaction CSVs, trigger a detection pipeline, and review flagged wallets and risk scores.
- Designed a graph-based detection engine using NetworkX to construct wallet transaction graphs and score activity across 185 heuristics and 5 ML models, producing calibrated transaction-level risk scores.
- Built repositories for pipeline runs, suspicious transactions, and wallet clusters, plus 26 Supabase SQL migrations with row-level security for run-scoped isolation and SAR export.

SmartAdvisors – Course & Professor Recommender | *React, Flask, SQL*

February 2026

- Built an academic planning platform that parses student transcripts, maps completed courses to degree requirements, and surfaces ranked course and professor recommendations.
- Designed SQL schemas for professors, courses, tags, prerequisites, and student preferences, enabling filtered search across 1,000+ professor records.
- Implemented a weighted scoring engine combining professor ratings, difficulty, course tags, and student preference weights to generate explainable ranked outputs.

TECHNICAL SKILLS

Languages: Python, Java, C++, C, TypeScript, JavaScript, SQL, Bash

Frameworks & Libraries: React, Redux, Angular, Node.js, Express.js, FastAPI, Flask, PyTorch, NetworkX

Tools & Platforms: Git, Unix/Linux, MySQL, Supabase, Jira, Bitbucket, ESLint, Storybook

EXTRACURRICULAR

Learning Specialist | *University of Texas at Arlington*

February 2024 – Present

- Tutored 15+ students with Intellectual and Developmental Disabilities (IDD) in Algorithms & Data Structures, Assembly, Discrete Structures, and Web Development, adapting complex CS concepts into individualized learning plans.