Alexander Jawhari

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EDUCATION

University of Texas at Dallas   Richardson, TX
B.S. in Computer Science; GPA: 3.36   *Expected May 2027*
- **Coursework:** Data Structures & Algorithms, Database Systems, Digital Logic & Computer Design, Computer Architecture, Systems Programming in UNIX, Functional Programming & Paradigms, Probability and Statistics, Linear Algebra, Computer Networks, Software Engineering

EXPERIENCE

Software Engineering Intern   May 2025 – Aug. 2025
Core Integrative Health   *Dallas, TX*
- Architected patient financial management system processing **100+** records weekly, reducing manual data entry time by **50%** through automated tracking of payment schedules and insurance claims
- Designed **RESTful API** in **Python Flask** integrating health records with billing system, eliminating duplicate data entry across departments and reducing billing errors by **10%**
- Automated follow-up workflows: built scripts generating templated email messages or phone call logs to notify patients and improve outreach, resulting in **40%** improved patient callbacks and **30%** reduction in late or missed payments

PROJECTS

CourseSync | *Python, Discord.py, Playwright, BeautifulSoup, Supabase, Docker, Render*
- Developed **Discord bot** tracking **1,800+ class sections** with instant DM notifications when seats open, implementing intelligent rate limiting to prevent notification spam
- Engineered multi layered scraping with **Playwright** automation, **BeautifulSoup** token extraction, and **curl_cffi TLS** masquerading as automatic fallback chain bypassing CAPTCHA with **100% reliability**
- Deployed containerized application on **Render** with background task loops checking availability every **15 minutes** while maintaining sub **100ms Supabase** query times

SpotFinder | *React, Vite, Zustand, Leaflet.js, Node.js, Express, Supabase, Render, Vercel, Cloudinary*
- Built geolocation platform connecting people with third spaces using **React concurrent features** and **Leaflet geospatial clustering** to render **1000s of locations** with real time check ins
- Designed RESTful API with Express handling **98.5%** uptime through automated health checks, supporting real time filtering by amenities with debounced state management
- Implemented efficient **geospatial queries** using **PostgreSQL's** built in functions to calculate distances, achieving sub **100ms response times** for nearby location searches within customizable radius

DevHub | *React, Vite, Tailwind CSS v4, Zustand, Socket.io, Node.js, Express, Supabase, Render, Vercel*
- Engineered API security platform performing automated **OWASP Top 10** scans detecting **SQL injection**, **XSS**, and security header misconfigurations across **200+ endpoints** with **94% accuracy**
- Implemented **24/7 monitoring** using **node cron** for health checks every **5 minutes**, tracking uptime and response times with real time **WebSocket alerts** via **Socket.io**
- Built reporting engine generating **PDF** and **JSON** security audits with **express validator** sanitization, **SSRF protection**, and **rate limiting** preventing DDoS attempts

TECHNICAL SKILLS

Languages: Python, Java, C++, C, JavaScript, SQL, HTML/CSS, Bash, R, Lisp, Haskell, Verilog, Assembly
Frameworks & Libraries: React, Node.js, Express, Flask, Discord.py, Playwright, BeautifulSoup, curl, Leaflet.js, Zustand, Socket.io, Recharts, Tailwind CSS, JWT, Helmet, express-validator
Developer Tools: Git, Docker, Linux/Unix, PostgreSQL, Supabase, Render, Vercel, Vite, VS Code, Postman
Technical Areas: Full Stack Development, RESTful API Design, Web Scraping & Automation, Geospatial Data Processing, Real Time Systems, Security Testing, OWASP Vulnerability Analysis, DevOps, Containerization
Leadership & Activities: Speech and Debate Club President (60+ members), Cybersecurity Club Member
Interests: Painting, reading philosophy (currently stuck on page 47 of Kant), playing guitar, rock climbing, and weight lifting