Mazen Fraihat

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EDUCATION

California State Polytechnic University, Pomona — *Pomona, California*
B.S. in Computer Science — *Expected Graduation, May 2027*
- GPA: 3.90/4.00 — Dean's List (Fall 2025, Spring 2026), President's List (Spring 2026), James Lebowitz Memorial Scholarship

Chaffey College — *Rancho Cucamonga, California*
A.S.-T in Computer Science — *2023 - 2025*
- AS-T with Honors; Phi Theta Kappa; Exemplary Honors (Fall 2023); Dean's Honors (Fall 2024, Spring 2025)

EXPERIENCE

LinkTech Solutions — *Chino Hills, California*
Full-Stack Software Engineer Intern — *Jun 2026 - Present*
- Build and ship 5+ production client websites end to end, developing backend services and REST APIs in Node.js and Express with Supabase (PostgreSQL) for authentication and data storage
- Deploy each site from local development to live production, configuring hosting, custom domains, and SSL
- Administer Linux servers over SSH, implementing security hardening (key-based authentication, access controls) and managing releases directly from the command line
- Accelerate delivery using terminal-based, AI-assisted workflows (Claude Code) for scaffolding, debugging, and code review

California State Polytechnic University — *Pomona, California*
Web Developer, College of Science Dean's Office — *Oct 2025 - Jun 2026*
- Developed and maintained 100+ web pages per month across all College of Science departments using the university CMS, managing updates through direct stakeholder communication
- Audited and improved site-wide content and structure, reducing broken links by 25% and enhancing UI/UX consistency, accessibility, and navigation across departmental pages

West Covina Pain Management Center — *West Covina, California*
Data Management & Automation Assistant — *Jun 2023 - Oct 2025*
- Automated weekly email reminders to 6,000+ clients, replacing a manual outreach process and cutting workload from hours to seconds

PROJECTS

RoboILM — Educational Robotics Platform (Founder & Developer) | *Next.js/React, Node.js/Express, Supabase*
- Founded and run a robotics program serving 150+ students across 7 locations in the U.S. and Jordan
- Built and deployed the full-stack platform behind it: enrollment, payments, and a custom CRM on Supabase (PostgreSQL) with Node.js/Express APIs, running on an SSH-secured Linux server
- Wrote the entire K-6 robotics curriculum from scratch, including lessons, hardware labs, and assessments

Autonomous Drone Mission Stack | *ROS 2 Humble, PX4 SITL, MAVROS/MAVLink, Gazebo, Python*
- Built PX4 SITL from source and simulated multiple vehicle types and Gazebo worlds, connecting QGroundControl over MAVLink and integrating MAVROS with ROS 2 Humble
- Wrote a ROS 2 mission-upload node in Python and debugged waypoint push failures by diffing mission state read back from the flight stack against the intended plan

AI-Assisted Learning & Student Performance — ML Study | *Python, Machine Learning*
- Designed and launched an end-to-end ML study from scratch — survey design, worldwide data collection, cleaning, exploratory analysis, and modeling — examining how AI usage patterns relate to student academic performance
- Building regression, random forest, and XGBoost models to identify AI-use behaviors linked to better outcomes; publishing findings via a public video series and mazenfraihat.com

LEADERSHIP

Muslim Student Association, Cal Poly Pomona — *Pomona, California*
Board Member, Education Coordinator — *Aug 2025 - Present*
- Serve on an 8-member executive board planning and executing weekly events with attendance exceeding 100 participants

Islamic Center of Claremont Youth Committee (ICCYC) — *Claremont, California*
Board Member — *2026 - Present*
- Plan and execute biweekly programs and events serving 50+ Inland Empire youth

SKILLS

Programming Languages: Python, Java, C++, C, JavaScript (Node.js), TypeScript, SQL, R, Dart, F#, HTML, CSS, Bash
Backend & Infrastructure: Node.js, Express, REST APIs, React, Next.js, Tailwind CSS, Supabase (PostgreSQL), MySQL, Linux/UNIX administration, SSH & security hardening, web deployment, domain/SSL configuration
Engineering & Data: Agile/Scrum, OOP design, design patterns, testing & code review, Git/GitHub, scikit-learn, pandas, NumPy
Spoken Languages: English, Arabic