

# LUIS GOMEZ

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## Education

### The University of Texas at El Paso

Expected: December 2025

Bachelor of Science, Computer Science

GPA: 3.65/4.00

- **Relevant Coursework:** Software Engineering, OOP, Operating Systems, Database Systems, Parallel Computing
- **Academic Achievements:** Dean's List Fall 2023, Maintained 3.65+ GPA with 15+ credit hours per semester

## Work Experience

### Clint Early College Academy

May 2022 - May 2024

Information Technology Technician — El Paso, Texas

- Reduced device downtime by 40% through proactive diagnostics and repairs on 200+ desktop and laptop systems
- Achieved 99% uptime deploying software configurations across 50+ classroom devices using automated scripts
- Resolved 95% of 500+ monthly support tickets within 2-hour SLA, serving 1,200+ students and faculty
- Reduced hardware failures by 30% implementing preventive maintenance protocols and regular schedules

## Projects

### EZrad - Medical Imaging Platform | React, FastAPI, Supabase, Tailwind CSS, DICOM September 2024 - Present

- Built HIPAA-compliant medical imaging platform processing 1,000+ X-ray images daily for radiology clinics
- Implemented DICOM protocol via TCP/IP, reducing diagnostic turnaround time from 2 hours to 15 minutes
- Created Supabase database linking patient records and QA workflows, supporting 50+ concurrent users
- Developed React reporting interface enabling radiologists to generate reports 60% faster than legacy systems

### TRACE - Security Testing Platform | Python, SvelteKit, PyTorch, Kali Linux, Docker August 2024 - May 2025

- Built enterprise cybersecurity platform integrating 5+ penetration testing tools for 100+ target systems
- Developed web crawler and directory fuzzer identifying 200+ hidden endpoints with 85% accuracy rate
- Implemented PyTorch ML password generator achieving 85% success rate in controlled brute force testing
- Led 8-person DevCom team delivering enterprise features with 98% test coverage and production deployment

### CredStalker - Password Security Tool | React, FastAPI, Python, K-Anonymity January 2025 - May 2025

- Created zero-knowledge credential tool checking 10+ billion breached passwords using k-anonymity protocol
- Built FastAPI backend handling 10,000+ requests per hour with 99.5% availability across breach databases
- Engineered password strength analyzer providing crack time estimates and security recommendations to 500+ users
- Designed React interface with interactive charts improving user engagement by 80% through data visualization

### Health Routes - Healthcare Locator App | React Native, FastAPI, Google Maps API, GPS April 2025 - May 2025

- Built cross-platform mobile app locating 5,000+ healthcare facilities using Google Maps Places API
- Implemented real-time GPS navigation with FastAPI backend providing sub-second response times
- Reduced Google Maps API calls by 70% through intelligent data caching while maintaining accuracy
- Achieved 60fps scrolling and 2-second startup times across iOS and Android through React Native optimization

## Skills

**Programming Languages** Python, Java, JavaScript, TypeScript, C, HTML5, CSS3, PHP, Bash, MySQL, Assembly, Scala

**Frameworks & Libraries** React, React Native, Node.js, FastAPI, Spring-Boot, PyTorch, TensorFlow, scikit-learn, Pandas, NumPy

**Tools & Technologies** Git, GitHub, Docker, Linux, VMware, Jupyter Notebooks, Vite, Supabase, PostgreSQL

**Technical Concepts** RESTful APIs, OAuth, HTTPS/TLS, CORS, Machine Learning, Deep Learning, Containerization, CI/CD, DICOM Protocol, Cybersecurity

## Certifications

Amazon Junior Software Developer Certificate - Cloud computing, software development lifecycle, and AWS services

IBM AI Developer Professional Certificate (In Progress) - Artificial intelligence, machine learning, neural networks