Rafael Garcia

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EDUCATION

- **Bachelor of Science in Computer Science at The University of Texas at El Paso**
  - August 2023 – May 2025. GPA 3.87. NSF S-STEM Scholar
  - **Relevant Coursework:** Machine Learning, Data Mining, Computer Organization, Operating Systems, Programming Languages, Automata, Digital Systems Design, Advanced Object-Oriented Programming, Parallel Computing, Agile Software Development, and Software Engineering Requirements.
- **Associate in Computer Science at El Paso Community College**
  - January 2021 – May 2023. GPA: 3.83.
- **Bachelor of Philosophy at the University of Dallas**
  - August of 2018 – September of 2019. GPA: 3.3.

EXPERIENCE

- **Software Engineering Intern at Walmart Global Tech**
  June 2025 – August 2025
  - Created full-stack application using Python, Mongo, and React for legacy applications' SSL/TLS centralized certificate management to avoid incidents with expired certificates and save 2 to 3 hours of work for engineers and leadership.
  - Used machine learning to determine the best way to filter certificates out of the scope of the organization in virtual machines on on-premises servers, reducing the network load by approximately 95%.
- **Software Engineering Intern at Sam's Club**
  June 2024 – August 2024
  - Conducted testing and debugging of the new mobile app architecture using Charles Proxy, ensuring seamless integration with internal services.
  - Assisted coworkers with onboarding process for the new mobile app architecture by providing the proper documentation and personal guidance.
- **Academic Tutor at El Paso Community College**
  February 2023 – present
  - Tutored at least 15 students, helping improve their understanding and performance in computer science courses.
  - Maintained documentation consistency daily to ensure proper reporting is provided to management.
- **Customer Service Representative at GC Services of El Paso**
  September 2020 – January 2023
  - Helped 30 or more customers a day to help the company decrease phone queues.
  - Worked on 100-150 back-office cases to reduce caseloads for clients.
- **Baler at Goodwill Industries of El Paso**
  July 2020 – September 2020
  - Baled 15 to 18 boxes of clothes to increase the space at the warehouse daily.
  - Cleaned production floor to increase efficiency
- **Priestly formation Intern at Saint Patrick's Cathedral of El Paso**
  June 2018 – August 2019, June 2019 – August 2019
  - Assisted in 2-5 services daily to simplify the priest's duties.
  - Helped with 10 – 15 sacramental certificates a day to make the certificate creation process more efficient.

PROJECTS

- **Heart Disease Detection Application**
  Lightweight QT application with a Machine Learning Model designed to predict if an individual has heart disease or not based on certain features.
- **Resume Webpage**
  Resume created with HTML, SCSS, and JavaScript. Used SMTP JS API and Elastic Email for email handling, GitHub for hosting, and Namecheap for domain name and HTTPS protocol.
- **Sort and Search Algorithm efficiency tester**
  Benchmarked efficiency of 6 sorting and 2 search algorithms using a 641,000-word dataset, documenting findings in an IEEE-format research paper.

- Java (4 years)
- C (2 years)
- Scikit-Learn (1 year)
- NumPy (1 year)
- JavaScript (3 years)
- TensorFlow (6 months)
- Pandas (6 months)
- Python (2 years)
- MySQL (6 months)
- Firebase (6 months)
- HTTPS Proxying (6 months)

- Kotlin (6 months)
- PHP (6 months)
- React (6 months0
- Nmap (6 months)
- Docker (6 months)
- Scala (6 months)

- Android development (6 months)
- Command Line tools (2 years)
- Wireshark (6 months)
- MongoDB (6 months)
- Logisim (6 months)

- Node (6 months)
- Bash scripting (2 years)
- Grype (6 months)
- RISC-V assembly (6 months)
- LabView (6 months)