

John McWhirter

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EDUCATION

Texas A&M University, College Station, Texas
Master's in Computer Science and Engineering

August 2025 - December 2026

Texas A&M University - College Station
Bachelor's in Computer Engineering

August 2020 - May 2023

GPA: 3.7

WORK EXPERIENCE

Paycom Payroll LLC, Irving, TX
Software Developer III

June 2023 - October 2024

- Maintained the Documents, Checklists, and E-Verify HCM Software with PHP, MySQL, and React TypeScript
- Achieved 90% REST API performance improvement via database query optimization and algorithms

Texas Instruments, Richardson, TX
Applications Engineering Intern

June 2022 - August 2022

- Debugged High Speed Converters (≥ 10 MSPS) with Applications Engineers in Electrical Labs
- Developed a C and Python Tkinter GUI generator to automatically package Vivado configurations for clients

South Plains College, Levelland, TX
Math Tutor

August 2018 - December 2019

- Delivered technical instruction across multiple mathematics subjects to a diverse range of students
- Collaborated with professors to develop effective teaching strategies for diverse student populations

Campus Ambassador

August 2019 – December 2019

- Represented the student body at new student recruitment events, scholarship gala and various media outlets
- Gave campus tours to prospective students and special guests of the College

PROJECTS

DC Capture (Aggies Invent) [Github](#)

September 2025

- Developed and pitched a Python Flask AI document declassification system for Sandia National Laboratories, automating secure content flagging for enhanced workplace security

File System Converter (Paycom)

August 2024

- Designed API to migrate Terabytes of files from WFS to S3 maintaining seamless user experience

ADC Configuration GUI (Texas Instruments)

August 2022

- Created Python interface for configuring complex hardware parameters streamlining engineering workflows
- Integrated real-time data visualization components improving engineering decision-making processes

Enhanced Dynamic Field System (Paycom)

February 2024

- Engineered a multi-level caching strategy and query building technique to reduce page load times from 3 minutes to under a second

SKILLS

Programming Languages: Python, JavaScript, TypeScript, PHP, SQL, C++, C#, Java, C

Web Development: React, HTML, CSS, Next.js

Hardware & Embedded Systems: Vivado, AutoCAD, Altium, Soldering, Hardware Debugging

Cloud & Data Tools: AWS, Azure, PowerBI, DataBricks, Vercel

Other Tools: Git, Microsoft Office