

# Frank DiRosa IV

1702 Deacon Drive Unit 203 · College Station TX, 77845 | frankdirosaiv.github.io | github.com/frankdirosaiv

## Objective

Seeking a full time position in software engineering, cyber security, or IT

## Education

Dwight Look College of Engineering Honors at Texas A&M University in College Station	May 2018
Bachelor of Science in Computer Engineering	GPA 4.0
Minor in Mathematics	GPA 4.0

## Work Experience and Leadership

**Full Stack Software Engineer**- Dell, Round Rock, TX 05/2017 – Present

- Upgrade cart/checkout services in Premier Checkout to sustain \$11 Billion worth of revenue annually.
- Remodeling Full Stack (.Net and Angular) and creating REST API service calls. Create Unit/Regression Tests.

**Webmaster**- Accounting Office of Frank DiRosa III CPA P.C., San Antonio, TX 06/2013 – Present

- Create custom webpage interface between clientele and CPA firm to sustain +\$100,000 worth of traffic annually.
- Develop, design and construct customized PCs for CPA firm as well as aid in setting up basic infrastructure.

**Researcher**- TAMU AggieChallenge, College Station, TX 1/2016–5/2017

- Research and design involving haptic technology, user studies, data analysis and thesis writing.

**Performance Engineering**- Dell, Round Rock, TX 5/2016- 8/2016

- Monitor and test new code releases in the Dell infrastructure during \$60 Billion merger with EMC.
- Provide analysis of resulting data to help sustain several million dollars' worth of traffic daily.
- Present to several hundred Dell employees, Managers, Directors and Executive Directors about patents and Dell's Ideator Program.

**Peer Teacher** - TAMU ENGR 111 Peer-Teacher Program, College Station, TX 8/2015- 1/2016

- Participate in one-on-one student discussions and tutoring.
- Collaborate with fellow Peer-Teachers to help improve curriculum and teaching methods.

## Programming and Skills

Languages: C/C#/C++, Java, Python, FLTK, HTML, CSS, PHP, SQL, JavaScript, Bootstrap, JQuery, Angular.js, XML, JSON, Command Line/Batch, Verilog, MATLAB, LabVIEW, LaTeX, Visual Basics, MIPS Assembly.

Environments: Microsoft Office, AutoCAD, Inventor, SolidWorks, Git/GitHub, Jekyll, Unity Gaming Platform, Unreal Gaming Platform, Maya, Android Studio, Visual Studio, Eclipse, XCode, PSPICE Cadence, Arduino & Raspberry Pi Platforms, Windows/Mac/Linux/Unix familiar, .NET, Django, Ionic, NeoLoad, AppDynamics, Selenium, Burp, Wireshark.

Various Skills: Agile/Scrum, Bread boarding, Soldering, Semi-professional Violinist, Retail Experience, Patent Searches and Filing for Patents

## Special/Personal Projects

- Immgo: Web based application that looks up flights, hotels, maps and car rentals based on a drag-and-dropped image. Built on the Django framework and dynamic Ajax calls. Data gathered using several APIs including QPX Flights, Google Places and Google Vision API.
- CANE Project: GPS navigation aid for the visually impaired using Android SDK, embedded systems, and obstacle avoidance algorithms.
- TAMU Hack AutoText App: Automate text messaging based on time or location to avoid texting and driving. Designed with Twilio, Google Maps APIs, Amazon Web Services, and Android Studio.
- PhysiotherAPPy: Full Stack development for physical therapy application for home use to aid in exercises.
- Hackathon Reserver Application: WPF application to aid in booking and scheduling of conference rooms. Built as a Visual Studio WPF project in XAML, and C#.
- Yelp Big Data Challenge: Created a custom database dll to mimic SQL using a Visual Studio C++ project. Then created an application to use this custom database to perform analytics on yelp data. Custom data structures and algorithms allowed for more efficient analytics.
- Kalah Gaming AI: Client-server board game developed in Java. Implemented basics of AI design, minimax trees, and alpha-beta pruning.
- MIPS Processor: Designed a basic processor in Verilog with pipelining and data hazard detection using MIPS assembly architecture.
- Goal Tracker App: Create a hub for tracking ongoing and long term projects for different student organizations. Designed and implemented using Ionic, Angular JS, nodeJS, and Mongo DB.
- EV3 Automated Antiviral and Purification Pellet Dispenser: Classroom Team-based project using Legos Mindstorm kit and LabVIEW.