

PATRICK PUGA

SOFTWARE ENGINEER

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SKILLS

Programming Languages

JavaScript (ES6), TypeScript, HTML, CSS/SASS, C#, SQL

Libraries & Frameworks

React, MobX, Redux, .Net, Gatsby, Bootstrap

Tools & Platforms

Visual Studio, Git, Jira, MS SQL Server, IIS Server, Nginx

EDUCATION

M.S. Electrical Engineering

University of Texas El Paso

B.S. Electrical Engineering

University of Texas El Paso

PROJECTS

Personal Website - My portfolio website designed using Gatsby and Styled Components.

Reactivities - Social media website built using ASP.Net Core, Entity Framework, MediatR, React/Typescript.

INTERESTS & VOLUNTEER WORK

Mountain biking, hiking, guitar, anything outdoors and cruising on my boosted board

Humane Society of El Paso -

Non-profit no-kill animal shelter on site volunteer

Volunteer After School Sports

Program (VASSP) - Kindergarten and 1st grade soccer coach

PROFILE

Full stack software engineer specializing in developing exceptional, secure, highly scalable websites and applications.

PROFESSIONAL EXPERIENCE

SENIOR SOFTWARE DEVELOPER | Active Secret Clearance

Kiliuda Consulting LLC | El Paso, TX | Mar 2014 - Present

Contractor for the US Drug Enforcement Administration (DEA) El Paso Intelligence Center (EPIC)

- ▶ Currently working with a team of 4 engineers tasked with developing a new application (SaaS) for law enforcement deconfliction (determining when law enforcement are conducting an event in close proximity to one another).
- ▶ Designed and implemented the app frontend using React, MobX, built upon a custom React starter created with Webpack that will be used for future applications.
- ▶ Responsible for developing features across the application stack that include React components for interactive data tables, maps, pagination, database integration using MS Entity framework, as well as .NET backend micro service API's.
- ▶ Assisted other projects in migrating to Redux for state management prior to using MobX for more current apps.
- ▶ Developed backend micro service API's using .NET framework, migrating from the previous monolithic architecture.
- ▶ Implemented a location micro service that leveraged Apache's Solr search engine geospatial capability, vastly increasing the speed over the original applications use of SQL stored procedures.
- ▶ Involved in the entire application life cycle from planning and requirements through initial beta testing.
- ▶ Invest time for onboarding new developers through devops team and assist junior devs maintain and troubleshoot existing DEA applications.

DISPLAY APPLICATIONS ENGINEER

Micron Technology, Inc. | Denver, CO | Oct 2011 - Nov 2012

Applications engineer for Micron's FLCOS (ferroelectric liquid crystal on silicon) Microdisplay products

- ▶ Provided technical expertise and assisted customers with FLCOS micro display integration into their prototypes.
- ▶ Worked on testing for Micron's POP iPhone 4 pico projector and mobile app identifying several major issues.
- ▶ Programmed custom scripts for automated display testing (assembly language & MATLAB scripting) dramatically increasing test speed.
- ▶ Authored technical notes for display scaling, display microchip memory access/programming, and thermal design considerations allowing customers to more quickly develop prototypes.