

PATRICK PUGA

SOFTWARE ENGINEER

CONTACT

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(Open to Relocation)
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EDUCATION

M.S. Electrical Engineering

The University of Texas at El Paso
El Paso, TX | 2011

B.S. Electrical Engineering

The University of Texas El Paso
El Paso, TX | 2005

SKILLS

- React/Redux
- JavaScript (ES6)
- SQL
- SCSS
- Microservice Architecture
- Java
- .Net/C#
- Node.js
- Webpack
- GraphQL
- Agile Development

PROJECTS

- My portfolio website designed using Gatsby, React, and Styled Components
- Social media site designed using .NET, React, Mobx, and SQLite

INTERESTS

- Mountain Biking, hiking, guitar, cruising on my boosted board
- Humane Society of El Paso site volunteer
- Volunteer After School Sports Program (VASSP) kindergarten and 1st grade soccer coach

PROFILE

Senior software engineer specializing in developing exceptional, secure, highly scalable websites and applications. Experience with full software lifecycle development, agile methodology, and working in cross-functional teams.

EXPERIENCE

SENIOR SOFTWARE DEVELOPER | Active Secret Clearance

KILIUDA CONSULTING LLC | EL PASO, TX | 2014 - PRESENT

Contractor for the U.S. Drug Enforcement Administration (DEA) El Paso Intelligence Center (EPIC) Innovation and Special Programs Unit.

- Developed a new application (Saas) for law enforcement deconfliction (determining when law enforcement are conducting events in close proximity to one another).
- Designed app frontend using React, MobX, Sass, and Jest/React Test Library including the first iteration of the app that incorporated Redux.
- Wrote a custom React starter with Webpack that is being used for future React apps significantly reducing development time.
- Created picklist select microservice using Node.js providing app with custom select menu options adding customization and flexibility.
- Helped develop an IOS app for mobile deconfliction using React Native showcasing the innovation team's ability to quickly deliver mobile applications.
- Implemented a location microservice leveraging Apache's Solr search engine geospatial capability, vastly increasing the speed over the original's use of SQL stored procedures
- Create unit testing with React's testing library and Jest.
- Assisted in refactoring legacy apps, guiding the teams on best practices and helping split the code into reusable components reducing bugs and increasing future maintainability.
- Help with new developer onboarding and mentoring, continuously adding documentation to Jira and Confluence (the innovations team's wiki).

DISPLAY APPLICATIONS ENGINEER

MICRON TECHNOLOGY | LONGMONT, CO | 2011 - 2012

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

- Provided technical expertise and worked directly with customers integrating Micron's technology into their prototypes.
- Assisted in the development and testing of Micron's POP iPhone 4 pico projector mobile app identifying several major issues.
- Programmed custom scripts for automated display testing (assembly language and MATLAB scripting) dramatically increasing the number of devices tested.
- Authored technical notes for display scaling, memory access/programming, and thermal design considerations allowing customers to more quickly develop prototypes.