

# PATRICK PUGA

## SENIOR SOFTWARE ENGINEER

### CONTACT

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### EDUCATION

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The University of Texas at El Paso  
El Paso, TX  
M.S. and B.S. in Electrical Engineering

### SKILLS

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#### Programming Languages

JavaScript, TypeScript, Python, SQL, CSS, Sass

#### Libraries & Frameworks

React, React Native, GraphQL, Node, Apollo, PostgreSQL, Redux, Redis, Flask, Gatsby

#### Tools & Platforms

Git, GitHub, AWS, Docker, Jira, Confluence, Contentful, LaunchDarkly, New Relic

### PERSONAL PROJECTS

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#### patrickpuga.com (V2)

My portfolio website designed using Gatsby, React, Contentful and Styled Components

#### baezaengineering.com

A client site built using Gatsby/react while preserving original look.

### INTERESTS (other than coding)

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Mountain Biking, hiking, guitar, paddleboarding (anything outdoors)  
Previously a site volunteer at the Humane Society of El Paso and a VASSP kindergarten/1<sup>st</sup> grade soccer coach

### PROFILE

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Senior software engineer with experience in full lifecycle development, full-stack software and collaborating effectively within cross-functional teams.

### RELEVANT EXPERIENCE

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#### Senior Software Engineer | Nutrien Ag Solutions | Feb 2021 - Present

- Developed and delivered high-quality, robust production-ready code, playing a pivotal role in enhancing client experiences across diverse projects, with a focus on:
  - Nutrien One Hub: Web and mobile application built using react/react-native (Typescript) that allows crop consultants and agronomists stay connected to online tools.
  - Nutrien Pocket Rain Gauge and Pocket Spray Smart IOS app built with react-native.
  - Digital Partners: A python-based backend external partner API and notification system
- To date, I've developed numerous components and screens for Web, IOS, and Android, effectively translating UX designs and workflows into production ready solutions.
- Contributed to the enhancement of a customer search API, increasing its robustness, and introducing partial word search capabilities to improve the user experience.
- Rapidly executed a crucial hotfix, upgrading the AWS SDK from V2 to V3, effectively resolving a production issue that temporarily impacted client PDF-saving functionality.
- Collaborated in architecting and developing Nutrien IOS apps, Pocket Rain Gauge and Spray Smart, from inception to successful deployment on the Apple App Store. (React Native)
- Enhanced Nutrien's Digital Partners API with custom logging events, incorporating correlation IDs, to facilitate comprehensive monitoring and statistical analysis through New Relic graphs, optimizing system performance and reliability.

#### Senior Software Developer | Kiliuda Consulting LLC | 2017 - 2021

- Full stack Developer for the U.S. Department of Justice El Paso Intelligence Center (EPIC) (rollover contract from Rolling Bay LLC)
- Senior developer on project to completely replace legacy DOJ application. A SaaS application to aid law enforcement in event deconfliction, identifying and coordinating simultaneous operations in close proximity. (React, Node.js, Redux, PostgreSQL, Apache Solr)
- Played a pivotal role in the development of an application that empowered law enforcement personnel to report drug seizures and leverage the data for identifying likely locations on vehicles. (React, Node.js, Redux)
- Architected and developed custom microservices to efficiently manage and share data across multiple applications, contributing to a strategic migration from a legacy monolithic architecture.
- Collaborated the development of a proof-of-concept IOS app for mobile deconfliction, demonstrating the innovation team's exceptional agility in rapidly delivering production ready mobile applications. (React-native, Xamarin Forms)
- Implemented a location microservice leveraging Apache's Solr search engine geospatial capability, vastly increasing the speed over the originals use of SQL stored procedure calculations.

#### Software Engineer | Rolling Bay LLC | 2014 - 2017

- Contractor for the U.S. Drug Enforcement Administration (DEA) El Paso Intelligence Center (EPIC) Innovation and Special Programs Unit
- Supported legacy law enforcement applications both frontend and backend development (react, java, SQL)
- Backend development to create a new micro service architecture with the goal of modernize legacy applications still implementing a monolithic design (.NET framework, C#)
- Led efforts to create onboarding materials for new developers while consistently updating the team's Confluence documentation