Patrick E. Vargas

Experience

Software Engineer II Nexxen · *New York, NY (Remote)* · **Aug 2018 -- Present**

Previously Tremor Video

`#scala` `#java` `#kafka` `#protobuf` `#http4s` `#fs2-kafka` `#adtech` `#python` `#docker` `#kubernetes` `#grafana` `#datadog`

» Worked on bidding application to serve 2mm requests per second.
» Implemented various campaign filters, such as city and audio targeting, which generated $5M in 2021.
» Architected and implemented a supply-sampling system to assist in campaign runtime analysis for customers.
» Led and Coordinated globally mixed, international teams using organizational, clerical, and project planning best practices.

Projects

Registrar

`#scala` `#kafka` `#protobuf` `#http4s` `#fs2-kafka`

» Architected an app to sample supply to better identify issues in delivery through kafka and a lean scala app.

Historian / Forecaster

`#scala` `#play-framework` `#python`

» Created application to help sales/operation teams lookup historical information to fine-tune delivery of campaigns.
» Built pipeline to transform supply data into a bitmap-style database for quicker query times.
» Designed and implemented the API for integration with other apps.

Software Engineer Disney Streaming Services · *New York, NY* · **Nov 2016 -- Aug 2018**

Previously Major League Baseball (MLB)

`#java` `#spring` `#jersey` `#memcached` `#node` `#docker` `#aws` `#groovy` `#graphql`

» Led team in constructing a new shared CI library for organization's compliance.
» Mentored junior developers in software engineering best practices (pull-requests, software construction, testing).
» Refactored major parts of the application into smaller microservices.
» Facilitated performance testing with QA team to vet applications before launch.
» Fixed issues for clients in a timely manner.
» Implemented and extended functionality based on client requests.
» Learned the best practices of a highly-available, large-scale application.

Projects

Shared Jenkins Library

`#jenkins` `#groovy` `#sonarqube` `#mvn`

» Led the direction of implementation for team members.
» Improved overall code quality with automated SonarQube analysis on pull requests.
» Bolstered use of library through automated JavaDoc publication and thorough wiki documentation.

Stats API

`#java` `#spring` `#aws` `#memcached`

» API built for National Hockey League (NHL), Major League Soccer (MLS) and League of Legends.
» Highly available application, accessed in a variety of devices.
» Used Memcached to allow for 800k concurrent users, at 1k messages per second.

Software Engineer Pitney Bowes Software · *Boulder, CO* · **Jun 2014 -- Nov 2016**

`#grails` `#groovy` `#java` `#spock` `#postgresql` `#jenkins` `#aws`

» Implemented a status reporting website for stakeholders utilizing the Jenkins API.
» Led my team in the transition from SVN to Git, providing tools and documentation to make the switch seamless.
» Built and automated a SQL testing framework for our data production pipeline.
» Setup a Continuous Integration server, using Jenkins, for our project space.
» Volunteered as Documentation Lead and Scrum Master to streamline efficiency of day-to-day team minutia.
» Created a per-revision, performance-testing and reporting system for a high-profile project.

Projects

Geocoding Data Report

`#aws` `#grails` `#groovy` `#postgresql` `#jenkins`

» Presented product managers and other stakeholders with the most up-to-date product production status.
» Automatically collected and intelligently predicted quarterly production plans for efficient planning meetings.
» Provided automated information concerning specific product builds for use by sales and engineers.

Skills

Languages and Databases

» Scala (preferred), Java, PostgreSQL, MySQL, Vertica

Software, Frameworks, and Utilities

» Kafka, Docker, Kubernetes, Protobuf, Scala Play Framework, SonarQube, Git, Jenkins, DataDog, Grafana

Education

University of Colorado Boulder · *Boulder, CO* · **Aug 2009 -- May 2014**

Bachelor of Science, Computer Science

» Atmospheric and Oceanic Science Minor
» Technology, Arts and Media Minor (Graduated with Honors)
» Dean's List 2011, 2013 and 2014

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