Patrick E. Vargas

Skills

Languages and Databases
» Scala (preferred), Java, PostgreSQL, MySQL, Vertica

Software, Frameworks, and Utilities
» Kafka, Docker, Kubernetes, Protobuf, Scala Play Framework, Git, GitLabCI, Jenkins, DataDog

Experience

Software Engineer Tremor Video
New York, NY   **Aug 2018 -- Present**

`#scala` `#kafka` `#docker` `#play-framework` `#adtech` `#python` `#kubernetes`

» Implemented Data Science machine learning into production through daily model builds using Airflow and PySpark.
» Lead a team of international developers to enhance the platform with new functionality and sales opportunities.
» Worked on high-trafficked, real-time bidding application which served 300k requests per second.
» Architected and implemented a supply-sampling system to assist in campaign runtime analysis and customer assistance.

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

(Previously BAMTECH Media, Previously MLB Advanced Media)

`#java` `#spring` `#jersey` `#memcached` `#node` `#npm` `#docker` `#git` `#aws` `#jenkins` `#groovy`

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

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

`#grails` `#groovy` `#java` `#spock` `#postgresql` `#jenkins` `#git` `#gitlab` `#aws` `#bootstrap`

» 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

Registrar Tremor Video
May 2022 -- Sep 2022

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

» Architected an app to consume kafka messages and store the results for later use.
» Sampled bidrequest messages for better analysis of the overall supply.
» Lead small team to implement design for use at scale.

Historian / Forecaster Tremor Video
Jun 2019 -- Sep 2020

`#scala` `#playframework` `#python`

» Created application to help sales operation team query database for historical information.
» Built system to store data compactly for quicker retrieval.
» Lead a team to build a forecaster based on the historical data to help make our platform competitive.
» Architected the api for integration with other apps.

Shared Jenkins Library Disney Streaming Services
Jul 2017 -- Aug 2018

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

» Architected a shared Jenkins library to be used by all teams in organization.
» Lead the direction of implementation for team members.
» Mentored junior developers in software engineering best practices (pull-requests, software construction, testing).
» 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 Disney Streaming Services
Nov 2016 -- May 2017

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

» API Built for National Hockey League (NHL), Major League Soccer (MLS) and LoL.
» Highly available application, accessed in a variety of devices.
» Provided support to clients using the API.
» Used Memcached to allow for 800,000 concurrent users, at 1000 messages per second.

Geocoding Data Report Pitney Bowes Software
Feb 2015 -- Nov 2016

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

» Presented product managers and other stakeholders with the most important, up-to-date product production status in an easily consumable website.
» Automatically collected and intelligently predicted quarterly production plans for efficient and minimal quarterly planning meetings.
» Provided automated, up-to-date, detailed information concerning specific product information for use by customer service representatives and engineers.

Education

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

Bachelor of Science, Computer Science, 3.35 GPA
» Atmospheric and Oceanic Science Minor
» Technology, Arts and Media Minor (Graduated with Honors)
» Dean's List, Spring 2014 and Spring 2013, College of Engineering and Applied Science
» Dean's List, Spring 2011, College of Arts and Science

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