

Patrick E. Vargas

Experience	Senior Software Engineer Tremor Video New York, NY Aug 2018 -- Present
	#scala #kafka #protobuf #http4s #fs2-kafka #adtech #python #docker #kubernetes
	» Worked on bidding application to serve 300k 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 various teams over the years 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.
Projects	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 Jenkins 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 micro-services. » 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
	» Architected a shared Jenkins library to be used by all teams in organization. » 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 800,000 concurrent users, at 1000 messages per second.
Projects	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, GitLabCI, Jenkins, DataDog
	University of Colorado Boulder Boulder, CO Aug 2009 -- May 2014
Education	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
	Golden Triangle, Denver, CO patrick@yesthispatrick.com