

Joseph P. Conley

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Summary

I am a passionate full-stack engineer eagerly seeking opportunities to create value for companies using technology. I have a track record of delivering effective solutions using JVM languages like Scala and have specialized in frameworks like Play and Spark. I look forward to leadership roles where I can have a significant, positive impact on the companies I work with and offer technical mentorship and guidance to my team.

Experience

Buyside | Wayne, PA

CTO (2/2018 –Present)

- Managed multiple front-end and back-end teams to achieve a variety of company-wide initiatives and projects
- Oversaw system-wide rewrites and improvements while supporting existing systems and maintaining customer happiness
- Streamlined ETL processes to increase customer onboarding time by over 4x, drastically improving bottom-line revenue and cash flow position
- Worked closely with the business to maintain a balanced product roadmap focused on growth initiatives and customer happiness

Chariot Solutions | Fort Washington, PA

Consultant (3/2015 – 2/2018)

- At Comcast, created a deep learning recommendations platform using Keras and TensorFlow
- At Comcast, built out the foundation of a modern data analytics platform using AWS and Kafka to stream and transform high volumes of data into manageable use in a data analytics pipeline.
- At Chariot, helped start a Big Data initiative which included running monthly strategy meetings, content creation for the website, and talking with clients about potential Big Data solutions.
- At Comcast, used Spark and Hadoop to collect transactional data into a database and built an application to provide data visualization and ad-hoc reporting.
- At Comcast, evangelized for developer productivity tooling like Swagger and automated Jenkins jobs to improve systems visibility and automate/document repetitive tasks.
- At IMS Health, built a web-based platform to allow business users to efficiently run and compose modular Spark jobs. Integrated data from dozens of sources to handle ingestion and extraction.
- At Angie's List, helped to rewrite the PaymentService API using Play Scala and the Cake and Microservices patterns. Implemented Swagger UI to facilitate interactive API documentation, built a prototype for newer API version using Spray and Akka, and worked with operations to customize CircleCI and Docker scripts to accommodate the new API.
- At Angie's List, enhanced the API and refactored large portions using Scala/Spray best practices. Designed and built an automated test framework in Scala/Spray to perform white-box testing of APIs and HTTP servers in any environment

Point.io | Wayne, PA

Senior Developer (10/2013 – 3/2015)

- Developed a comprehensive authentication/authorization framework for the Point.io API
- Developed a BPM workflow engine and API in Play Scala leveraging the core Point.io API document platform and the open-source BPM Activiti library
- Developed front-end reactive marketing tools using the workflow engine and Ember.js
- As the "performance czar", developed cross-cutting solutions for JVM-based applications to track performance metrics, store them in MongoDB, and provide an interface to analyze the data

- Built a Play Scala application to interactively test the Java library of the core API using Specs2
- Led seminars on best practices for Scala/Play and wrote complementary blog posts to that end

Mainstream Integration | Philadelphia, PA

Co-founder/CTO (10/2011 - 10/2013)

- Developed and maintained enterprise web applications focused on data integration for clients in healthcare and logistics industries using Play (Java and Scala), Knockout.js, and PostgreSQL
- Administered development and production environments on AWS by setting up web and database servers and monitoring these systems using Nagios and New Relic
- Responsible for database administration and development for PostgreSQL, Redis, and S3
- Performed basic sales functions by interacting with prospective clients, and performing systems evaluations to gather requirements and build proposals for custom technology solutions

Planalytics, Inc. | Berwyn, PA Enterprise Application Developer (6/2011 - 2/2013)

- Maintained and enhanced a SaaS suite of web applications built in JSF and Java
- Improved a proprietary Java framework for long-running jobs, resolving performance bottlenecks
- Wrote scripts for Oracle ETL transactions and for statistics processing using R
- Enhanced a proprietary widget framework built in Restlet and Freemarker
- Enhanced/modified SAP's BusinessObjects suite for use in internal/external reporting

BDP Intl. | Philadelphia, PA

Application/Integration Developer (6/2009 - 5/2011)

- Used Java/Struts/JS to develop logistics applications used by several international companies
- Used integration tools (JCAPS) and PL/SQL to translate and process client data for ETL
- Interacted daily with the business owners to establish requirements and meet client needs
- Demoed web applications to both internal resources and prospective clients
- Earned awards for Team Dedication (March 2010), Customer Service (April 2010), and Process Improvement (November 2010) based on my work on our nationally-recognized ISF application

Tufts University | Boston, MA

ITS Student Trainer (9/2008 - 7/2009)

- Helped administer training sessions for programs like MS Office, Mozilla, and Adobe
- Created a variety of learning manuals for these programs using MS Office and updated website information and graphics using Microsoft FrontPage 2003
- Provided individual tutoring sessions for students, faculty, and staff

ACE USA Ins. Co. | Philadelphia, PA

Actuarial Assistant (07/2007 - 08/2008)

- Created actuarial models using Excel to justify rate changes and aid in writing insurance policies
- Manipulated databases using Access and other query tools to obtain historic data for actuarial exhibits to state insurance departments
- Improved communication skills by explaining actuarial models to sales/business departments
- Completed Exam P and Exam FM of the Society of Actuaries

Personal Projects

DataCombinator | <http://www.datacombinator.com> | Launched 2014

- Platform to facilitate the collecting and combining of data and expose via API endpoints
- Query engine allows querying data in various formats (JSON, XML, CSV)
- Templating allows for generation of HTML, RSS, and iCal files, to name a few

play-jsonpath | <https://github.com/josephconley/play-jsonpath>

- Open source library which adds JSONPath expressions to the Play JSON library

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SwingStats | <http://www.swingstats.com> | **Launched 2012**

- Originally written in Play 1.x Java to manage my fantasy golf league
- Enhanced to allow golfers to save scores, track their handicap, and review their statistics

Education

- MS Computer Science, Drexel University, 2012
- BS Mathematics, Economics (Minor: Philosophy), University of Scranton, 2007