Abraham Polk

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Summary

I am a software engineer who takes a creative and analytical approach to technical problems. At home both digging through code and working with collaborators, I thrive in many different types of environments. My passion for tackling complex challenges inspired the hundreds of hours spent independently contributing to open source software.

Skills

- **Programming Languages:** Java, Python, JavaScript, Bash, R
- **Software:** IntelliJ IDEA, Git, Visual Studio, RStudio, Pandas, Numpy, Django, jQuery, Node, MongoDB, React, JUnit

Experience

Software Engineering Fellow   Apr 2020 – Jul 2020
General Assembly Software Engineering Immersive – Remote
- Three-month, 500-hour full-time full-stack web development program conducted in a remote setting
- Completed projects with the latest front- and back-end programming languages, tools, and methodologies
- Utilized HTML, CSS, JavaScript, jQuery, PostgreSQL, MongoDB, Python, Django, Node, React, Git, GitHub, and Agile methodologies

Open Source Contributor (Java)   Jul 2018 – Feb 2020
JabRef – Remote
- Overhauled event-driven architecture in Java such that events for a single user action are combined, allowing faster database synchronization
- Supported all work with comprehensive testing in JUnit
- Refactored Swing GUI to JavaFX using model-view-view-model architecture

Projects

Python Twitter Sentiment Analysis Machine Learning Project   Jun – Sep 2017
- Used Twitter Streaming API to retrieve tweets about a search term and add them to a MongoDB database
- Automatically interpreted the sentiment of tweets using an emoji sentiment database
- Trained a multinomial naïve Bayes classifier using tweets that had been converted into *n*-grams using a customized preprocessor

CSMChecker - Python *Christian Science Monitor* Analysis Application   Feb 2017
- Scraped the *Christian Science Monitor* website for articles with a Python script
- Used the SendGrid API to send notification emails when relevant articles were found

Education

General Assembly Software Engineering Immersive   Apr 2020 – Jul 2020
Remote

Boston University, BA   May 2013
Boston, MA