

# Abraham Polk

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## Summary

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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

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

## Experience

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### Software Engineering Fellow

Apr – 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, and GitHub

### 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

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### 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

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### General Assembly Software Engineering Immersive

Apr – Jul 2020

*Remote*

### Boston University, BA

May 2013

*Boston, MA*