CHARLIE BROOKE O'HARA

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TECHNICAL SKILLS

PYTHON
PYTEST

JAVA

SPARK
HADOOP
PIG

SQL
SNOWFLAKE

LINUX CLI
BASH SCRIPTING

DOCKER
JENKINS

RUBY
RUBY ON RAILS
RSPEC

WORDPRESS
PHPUNIT

HTML
CSS
JAVASCRIPT

GIT

PROFESSIONAL SUMMARY

Data engineer experienced with writing Python and Bash scripts for automation, working with AWS infrastructure, and building Apache Hadoop MapReduce, Pig, and Spark applications. Self-starter who is quick to learn new technologies and capable of building applications with little guidance. Always ready to jump in and help the team, and consistently provide stellar service to stakeholders. Earned a 92% on the AWS Certified Solutions Architect Associate exam, proving a strong ability to absorb and retain information.

EXPERIENCE

Software Engineer - Data Infrastructure, Verve
San Diego, CA — July 2017 - present

- Built an automated pipeline involving a Python script running on an AWS EC2 instance that monitors for new AWS S3/SQS input, launches Hadoop MapReduce Java applications into AWS EMR to transform new input and merge into an internal AWS S3 dataset, and register status updates to an AWS RDS MySQL control table
- Manage a pipeline of Apache Spark jobs linked together with Python's Luigi module
- Write Bash scripts to launch ad-hoc Hadoop Streaming, Apache Pig, and Snowflake jobs to automate operational processes in order to streamline delivery
- Work with a team to establish a workflow for building, distributing, and ultimately executing against Python and Java code artifacts within our ecosystem

Big Data Engineer, Algebraix Data
San Diego, CA — February 2017 - July 2017

- Built and ran Apache Spark SQL and PySpark applications in AWS EMR to test proprietary query acceleration algorithm against TPC-H and TPC-DS benchmarks
- Wrote Bash scripts to streamline product installation in a variety of environments
- Wrote Python scripts for general automation and log analysis

Quality Assurance Engineer, Grizzly
San Diego, CA — September 2016 - February 2017

- Setup and built client WordPress applications leveraging Docker
- Wrote PHPUnit tests that were integrated with a continuous integration tool
- Wrote Python scripts for data mining, cleaning, analysis, and transfer

Junior Software Engineer Apprenticeship, The Firehose Project
Remote — March 2016 - August 2016

- Worked with a remote team to build a Ruby on Rails chess web application following agile methodologies with pair programming collaboration
- Built complex business logic for chess piece movements thorough test-driven development using RSpec
- Leverage jQuery User Interface and AJAX to move pieces in the browser and Pusher websocket for communication between players

EDUCATION

University of California, Santa Barbara
Bachelor's - Biology