CHARLIE BROOKE O'HARA

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TECHNICAL SKILLS

AWS CERTIFIED

LINUX OS/CL

DOCKER
VAGRANT

APACHE SPARK
HADOOP
GANGLIA

SQL

PYTHON
NUMPY
PANDAS

HTML
CSS
JAVASCRIPT

PHP
PHPUNIT
WORDPRESS

RUBY
RUBY ON RAILS
RSPEC
POSTGRESQL

C
JAVA

GIT

PROFESSIONAL SUMMARY

Big data engineer responsible for creating distributed cloud computing environments in AWS, building Apache Spark SQL applications, and writing Python scripts for automation. Quick to learn new technologies and capable of creating functional applications with little guidance. Earned a 92% on the AWS Certified Solutions Architect Associate exam.

EXPERIENCE

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

- Build Spark SQL and Python applications to test Algebraix Data's query acceleration algorithm against TPC-H and TPC-DS benchmarks for quality assurance
- Provision AWS resources using AWS CLI tools and run Spark applications utilizing AWS S3, Ganglia, HDFS, and Hadoop YARN within AWS's Elastic MapReduce (EMR)
- Write bash scripts that work with various Linux operating systems to streamline product installation in a variety of environments
- Write Python scripts for general automation and log analysis

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

- Identify, document, and report bugs in test using BugHerd and in production using Google's ACC methodology
- Write unit tests using PHPUnit and configure continuous integration tool Wercker
- Write 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
- Gained working knowledge of query optimization while building complex business logic for chess piece movements and wrote thorough unit tests using RSpec
- Utilized jQuery User Interface and AJAX functionality to move pieces in the browser and Pusher websocket for communication between players

Laboratory Technician, UC Santa Barbara
Santa Barbara, CA — September 2008 - June 2010

- Independently learned how to operate the lab's new Conductivity Temperature Density (CTD) and Acoustic Doppler Current Profiler (ADCP) and collect data
- Used MATLAB's Velocity Mapping Toolbox (VMT) and the Python ecosystem (pandas, NumPy) to analyze the raw data and generate reports to share with team

EDUCATION

University of California, Santa Barbara
Bachelor's - Biology   GPA - 3.5

Santa Barbara City College
Associate's - Engineering, Mathematics   GPA - 4.0

City College of San Francisco
Associate's - Computer Science   GPA - 3.75

References available upon request.