Owen A. Charles

SOFTWARE ENGINEER · DATA ANALYST

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Education

University of Chicago   *Chicago, IL*
 B.S. IN MATHEMATICS
 B.S. IN COMPUTER SCIENCE   *2013 - 2017*

San Francisco University High School   *San Francisco, CA*
                                                                                                                    2009 - 2013

Technical Skills

Programming	Python, Java, Bash, SML, Perl, C, Elm, LaTeX
Data Science	SQL (postgres, mysql, sqlite), sklearn, natural language processing, numpy, pandas
Operations	Experience working in AGILE, translating technical information in all-company presentations
DevOps	AWS (EC2, RDS, Lightsail), Heroku, Git
Web	Django, Flask, Javascript, HTML/CSS

Experience

Locus Analytics   *New York, NY*
SOFTWARE ENGINEER & DATA ANALYST   *Summer 2016, Jul. 2017 - Present*
- Build software pipelines that use machine learning and other techniques to predict properties of public companies
- Work with outside clients to adapt and apply the firm's proprietary analysis techniques on new datasets
- Independently research, structure, and maintain AWS workspaces for the data team, including multiple EC2 instances, shared file systems, directory services, and security groups
- Prepare material for and give presentations to technical and non-technical audiences detailing classification and analytics work
- On own initiative, re-factored thousands of lines of legacy code to condense modules, improve APIs, ease debugging, and facilitate significant speedup
- Research public company filings and disclosures in order to support the firm's financial products
- Play a major role in developing strategy for multiple products by leading topic meetings and proposing action items

University of Chicago Department of Computer Science   *Chicago, IL*
DATABASE & WEB DEVELOPER   *Jan. 2016 - Jul. 2017*
- Given only final product specifications, worked with faculty to design and build a database and web interface for intradepartmental scheduling, course information, and personnel management
- Designed and built front and back end for digital information displays located in public areas of campus

Bibliovault (University of Chicago Press)   *Chicago, IL*
SOFTWARE DEVELOPMENT INTERN   *Summer 2015*
- Was responsible for day-to-day MySQL database management, including debugging production server
- Made long-term structural improvements to SQL tables in order to maximize query speed and ease of use
- Wrote and updated modules and scripts to automate database maintenance, manage manuscript storage, improve employee workflow, and serve as back end for public website

Jim Ross Consulting   *San Francisco, CA*
RESEARCH INTERN   *Summer 2014*
- Monitored news sources and generated daily clips for firm and clients
- Wrote personal finance talking points for TV and radio interviews for a client, Morgan Stanley Wealth Management
- Performed client and opposition research via news articles, precinct maps, donor databases, and public records

Selected Coursework

Honors Economic Analysis	Functional Programming	Databases
Real Analysis	Abstract Algebra	Complex Analysis
Complexity Theory	Formal Languages	Foundations of Linguistics
Machine Learning	Theory of Algorithms	Computer Architecture