

Matthew Blizzard Brown

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EDUCATION

CASE WESTERN RESERVE UNIVERSITY

BA IN COMPUTER SCIENCE

May 2015 | Cleveland, OH

BS IN STATISTICS

May 2015 | Cleveland, OH

COURSEWORK

Data Structures • Compiler Design

Signal Processing • Operating Systems

Stochastic Modeling • Computational Statistics

Introduction to Artificial Intelligence • Algorithms

SKILLS

PROGRAMMING LANGUAGES

Java • Scala • Ruby • Python • C/C++ • R • Shell/UNIX • SQL

Javascript • CoffeeScript • HTML • CSS • \LaTeX

TECHNOLOGIES, FRAMEWORKS, AND LIBRARIES

Spark • MapReduce/HDFS • Cassandra • Hive/Impala • MongoDB • ElasticSearch

Knockoutjs • React/Redux • jQuery • d3 • Sinatra • BLAS/LAPACK • Numpy/Scipy/Pandas

EXPERIENCE

BOSTON HEALTH ECONOMICS | FULL STACK SOFTWARE ENGINEER

June 2015 – Current | Boston, MA

- Managed Instant Health Data (IHD), a healthcare analytics web application on top of a large bare-metal HDFS/Spark/Cassandra cluster
- Wrote and ran ETLs to load terabytes of healthcare data into IHD with a mix of Spark, MapReduce and SQL
- Created real time full stack monitoring for IHD combining server status/load, REST APIs, application database queries and webserver logs
- Designed visualizations for analyzing longitudinal patient data in React and d3
- Worked with consultants to implement Propensity Score Matching in Spark using Scala, SparkML and raw RDDs
- Mentored junior members of the team on best practices and data structure/algorithm fundamentals

VIRTUAL HOLD TECHNOLOGY | SOFTWARE VALIDATION INTERN

May 2014 – Aug 2014 | Akron, OH

- Helped write and maintain large test infrastructure written in Ruby and running on top of CI Tool Jenkins
- Developed a Java plugin for Jenkins to dynamically assign tests to servers from an available server pool, improving testing parallelism and efficiency dramatically
- Extended and improved the reliability of the UI test suite written with Ruby Watir/Selenium WebDriver

TECHCORPS OHIO | PROGRAMMING INSTRUCTOR

May 2013 – Aug 2013 | Cleveland, OH

- Taught children ages 8-16 elementary computer programming and web development
- Using beginner "drag and drop" programming languages like Scratch and Alice to teach core programming concepts
- Basic web development including core networking concepts and introductions to HTML, CSS and Javascript

LINKS

Github: <https://github.com/mbb70>

LinkedIn: <https://www.linkedin.com/in/matthew-brown-25aa24b7>

REFERENCES AVAILABLE UPON REQUEST