

# Ronald Macmaster

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## EDUCATION

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### University of Texas at Austin

*Bachelor of Science in Computer Engineering; GPA: 4.0*

Software Engineering and Computer Architecture

Austin, TX

*Aug. 2014 – Dec. 2017*

## EXPERIENCE

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### Bloomberg L.P.

*Senior Software Engineer (Hadoop Infrastructure)*

January 2018 – Present

*New York, NY*

#### Operations

- Automated Processes for building / maintaining 2300 machines across 45 distributed Hadoop clusters
- Platform Scale - 100PB raw storage, 53k compute cores, 600TB memory
- Linux Systems Administration (storage, networking, processes, security, filesystems, etc.)
- Site Reliability Engineering support in (24/7) weekly on-call cycles
- Stack: python, ruby, chef, ansible, linux, advanced bash scripting

#### Software Development

- Design Documents detailing the scope, architecture, API, tradeoffs, and use-cases
- Develop and Test software for various control-plane microservices and tooling
- Mentor and Collaborate with developers in a pair-programming environment
- Stack: java, spring, react, jenkins, docker, kubernetes

#### Application Support

- Troubleshoot application issues that may be rooted in infra issues
- Consultation for users on application design and performance optimization
- Analyze upstream open-source project source code for root-cause debugging
- Stack: distributed systems, hadoop, mapreduce, spark, hbase, hive

## PROJECTS

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#### Database Copy | *Java, Spring Microservices, Python*

- Distributed data-copy service for transferring PB of data between data centers
- Contributed to the large existing codebase and eventually became the organization's lead developer
- Automated backup, restore, and distributed copy jobs for big-data storage and databases
- Multiple microservices, APIs, and CLIs for each technology and orchestration layer

#### Genius UI | *React, Javascript, Web*

- Full-stack web application for managing platform tenancies and resource allocations
- Tables for viewing and forms for creating and editing existing resources
- Advocated adoption of modern web stack (react, redux, graphql)
- Assisted with development of the back-end API (spring boot, java, postgresql)

#### Region Normalizer | *Java, HBase, Ruby*

- Microservice for merging and splitting shards in a distributed database (HBase)
- Packaged a command-line interface (Ruby CLI) with multiple subcommands and options
- Oversaw the release and migration across two major versions for the back-end API
- Secured the API with token-based authentication and RBAC authorization

## SKILLS

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**Languages:** Java, Ruby, Python, Javascript, C/C++

**Frameworks:** React, Spring, Chef, Ansible

**CI/CD:** Git, Docker, Jenkins, Kubernetes, Linux System Administration

**Distributed Systems:** Hadoop, HBase, Spark, MapReduce, Hive