

# Joseph Browning

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<https://github.com/beaucephus>

Athens, GA

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- 5-years-experienced developer with proven experience **designing, implementing, scaling, monitoring**, and **supporting** cloud-based tools and automation to speed up **development**, stream-line **operations**, and enhance **systems reliability**.
  - Excellent communicator able to convey information to diverse audiences.
  - Collaborative team player combining industry best-practices and business needs to **deliver outcomes**.
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## Areas of Expertise

- DevOps
  - Software Engineering and Development
  - Continuous Integration, Delivery, and Deployment
  - Test-Driven Development
  - Cloud Computing
  - Containers
  - Micro-services
  - Configuration Management Systems
  - Systems Architecture
  - Systems Administration
  - Agile and Kanban Development Lifecycles
  - E-commerce
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## Technical Skills and Tools

**Languages, Libraries, and Frameworks:** Ruby, Rails, Grape, Chef, RSpec, Serverspec, Bash, TypeScript, JavaScript, Angular(2), ExpressJS, SQL, TCL

**Markup and Styles:** JSON, YAML, HTML, CSS, SCSS

**Applications, Services, and Databases:** Git, GitLab, Jenkins, Docker, Vagrant, Akamai, Heroku, JFrog Artifactory, Chef Server, Chef Infra, HA Proxy, JBoss AS, Apache WS, Nginx, MySQL, Jira, Confluence, Splunk, Nagios

**Operating Systems:** Linux, Mac OS, Windows

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## Professional Experience

Macy's Technology | 2015-Present

## **Senior Software Engineer | 2018-Present**

### *Infrastructure and Cloud DevOps*

- Utilized containers and automated tests to create Continuous Integration and Continuous Delivery pipelines for 4 internal micro-services. The pipelines reduced the need for manual testing, completely automated artifact promotion, and reduced production deployment time windows from hours to minutes.
- Utilized industry knowledge and current events to save Macy's hundreds of thousands in potential license fees. For example: alerted executives and other key stakeholders of potentially costly license change on previously free-to-use product.
- Developed Ruby library to interact with in-house certificate management API over HTTPS, which enabled configuration management code to programmatically request, update, renew, and download SSL certificates in milliseconds.
- Mentored three new team members to develop their technical and professional skills. Two are still growing with the team, one continued on to pursue a doctoral degree.

### *In-House Operations Portal Web Application*

- Designed and led team to implement Tibco Enterprise Message Service (EMS) deployment feature, which allowed off-shore resources to safely and confidently deploy to the EMS environments in seconds without the need for on-shore expertise.
- Developed back-end modules to perform TCP dumps and JBoss AS recycles for in-house operations portal application, which allowed operations and monitoring teams to collect TCP dump information, and recycle JBoss applications simultaneously across thousands of public and private cloud virtual machines.

## **DevOps Engineer | 2016-2018**

- Quickly and efficiently designed and collaboratively implemented application deployment solution for over 100 NodeJS, JBoss AS, and Apache WS applications when business needs required a quick pivot away from expensive paid product that would have potentially cost millions of dollars in annual licenses.
- Collaborated with various internal teams to deliver cloud-based solution to provision geographically-distributed, load-balanced Macys.com and Bloomingdales.com sites, which enabled QA teams to test previously untestable production scenarios.
- Collaboratively developed company standard configuration management code for over 100 NodeJS, JBoss AS, and Apache WS applications serving Macys.com and Bloomingdales.com. Uniform infrastructure reduced feature promotion time, which reduced time between code releases by 50% and directly increased speed-to-market by 100%.

## **Junior DevOps Engineer | 2015-2016**

- Automated verification of internal firewall and routing changes using Jenkins and Ruby scripting. Saved many engineer hours that previously were spent manually verifying changes.
- Developed, tested, and deployed automated configuration management code to configure over 400 selling and fulfillment-critical back-end application servers. Reduced server configuration time from several hours per server to less than ten minutes.
- Diagnosed and resolved outage on checkout-critical application in Bloomingdales.com production site during Thanksgiving holiday 2015.

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## Additional Experience

### D&D Magic Item Tool

Created a single-page web app that provides Dungeons and Dragons players and dungeon masters an intuitive application to create home-brewed magic item cards. The front-end utilizes Angular Material to deliver a beautiful, physical-feeling, and mobile-enabled user experience. The back-end utilizes NodeJS to deliver a responsive API even when applying image manipulation on file sizes up to 10MB.

- <https://www.magicitemtool.com/>

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## Education

**Bachelor of Sciences, Computer Science**

University of Georgia; 2014-2015

**Bachelor of Arts, Music Performance (Trumpet)**

University of Georgia; 2005-2012

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## Personal

I enjoy building things to solve problems whether it's creating a web app or building shelving for my garage.

I am happily married with two wonderful children.

My current reading list includes *Clean Code: A Handbook of Agile Software Craftsmanship* by Robert C. Martin.

In my free time, I dungeon master two Dungeons and Dragons campaigns for co-workers and friends located in Australia, California, Colorado, North Carolina, and local to my home in Athens, Georgia.

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