

# Justin Howard Bolden Barnowski

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## CONTACT INFORMATION

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## EDUCATION

**University of Michigan**, Ann Arbor, MI  
*B.S.E. Computer Science, Cum Laude*

**Aug '10 - Dec '13**

## EMPLOYMENT

**Zipline International**, San Francisco, CA

### *Site Reliability Engineer*

**April '22 - Feb '23**

- Designed internal authorization and authentication systems.
- Developed global visualizations of life saving drone delivery system.
- Led hardware level administration of new delivery sites around the world.
- Maintained CI/CD systems.
- Configured global on-prem infrastructure remotely.
- Utilized Ansible for consistent Linux image configuration.
- Assisted with GitOps based deployments.
- Supported multi-OS and network infrastructure.
- Maintained 24/7 On-Call rotations.
- Database administration for end-user action tracking.
- Integrated network redundancy for lower-risk monitoring.

**Neighborhoods.com**, Chicago, IL

### *DevOps and Enterprise Services Manager*

**Oct '21 - March '22**

- Remedied newly uncovered vulnerabilities in underlying open source software.
- Led war room sessions through numerous AWS outages.
- Developed reusable infrastructure as code for deploying Postgres clusters on AWS RDS.
- Created reusable base images to support data, engineering, and developer use cases.
- Patched Linux systems as needed.
- Maintained internal logging and metrics aggregations.
- Led and completed the hiring process for multiple technical positions.
- Maintained internal authorization and authentication systems.
- Assisted in onboarding and offboarding of employees as needed.

### *DevOps Engineer*

**Oct '20 - Oct '21**

- Deployed DataDog to Kubernetes clusters for enhanced service tracing and Real User Monitoring.
- Configured PagerDuty alerts to alert teammates of issues, including silencing/queuing of non-critical alerts during off-hours.
- Configured Pod Security Policies to secure containerized environments.
- Deployed Machine Learning models to benefit the business' bottom line.
- Utilized Packer and Ansible to update nodes running Kubernetes control plane components.
- Wrote a minimal Golang based network monitoring daemon to detect and mitigate known Linux kernel bugs.
- Extended existing Helm charts to ease containerized deployments.
- Developed an organizational strategy for utilizing Github Actions.
- Updated and secured legacy CI systems running on Jenkins.

**DocuSign, Chicago, IL**

*Linux DevOps Engineer*

**April '19 - Oct '20**

- Automated patching of Linux systems across multiple data centers.
- Augmented existing tools for the benefit of operators and developers.
- Uncovered and rectified numerous logic, configuration, and data flaws.
- Handled patching both physical and virtual infrastructure, containing data systems.
- Participated in FedRAMP audit interviews for renewal of SpringCM's status.
- Tools utilized: SaltStack, Gitlab, VMWare, Hashicorp's Consul and Vault.

**University of Chicago, Center for Data Intensive Science, Chicago, IL**

*Lead QA Engineer Genomic Data Commons*

**June '18 - March '19**

- Led operational readiness review meetings.
- Interfaced with external stakeholders the Ontario Institute of Cancer Research and National Institute of Health (NIH).
- Led a team of FTE SDETs and four student interns validating and automating validation of new features and regressions.
- Interviewed numerous DevOps and SDET candidates.
- Reviewed tens of thousands lines of code across multiple disciplines.
- Assisted with design and architecture development.
- Refactored code to increase maintainability.

*Software Engineer in Test Genomic Data Commons*

**June '17 - June '18**

- Productionized virtual test automation servers.
- Scheduled daily test runs across multiple environments.
- Added security guardrails for safe handling of sensitive tokens.
- Authored tests for both new features and found regressions.
- Improved on existing test automation.
- Automated manual API regression test suite.

**Tophatter Inc, Palo Alto, CA**

*Developer*

**June '16 - Feb '18**

- Upgraded Android application's user interface to Google's Material Design specifications.
- Orchestrated A/B tests to determine optimal user experience and fulfillment of Tophatter's objectives.
- Learned Ruby to fix server-side bugs while also developing new features on the Android client.
- Extended the Android application internationally, specifically enabling multi-currency bidding.

**Ericsson Inc, Santa Clara, CA**

*Developer*

**June '15 - June '16**

- Maintained and enhanced the web app portion of a multi-platform video streaming application (Similar to AT&T U-Verse or Comcast Xfinity).
- Augmented landing service, and multi-operator customization framework. Including enabling configurable Content-Security-Policy headers to better secure end users' browser sessions.

*Tester*

**March '14 - June '15**

- Implemented automated tests using a selenium web driver in both C# and javascript.
- Scrum Master for multiple teams.

**Microsoft Inc, Mountain View, CA**

*SDET Intern*

**May '13 - July '13**

- During a twelve week internship collaborated with the Test Tools and Infrastructure team to revamp

failing test case triage process. Worked extensively with Team Foundation Server APIs.

**Garmin Inc**, Novi, MI

*SDET Intern*

**April '12 - Aug '12**

- Modernized the semi-truck instrument cluster, radio, and navigation tools. Worked extensively with the J1939 CAN networks of the vehicle. Including mimicking a CAN network using EEPod's MyCanic.

PROFESSIONAL **Black Hat**, Las Vegas, NV  
EXPERIENCE

*Student/Participant*

**Aug '14-'15**

- Android Application Hacking
- Uses and Misuses of Cryptography
- Advanced Wi-Fi Penetration Testing
- 0x7DF Mobile Application Bootcamp

REAL

Sailing

Chicago Race to Mackinac Island

**'18 -'22**

Running

Chicago Half Marathon

**Sep 24th, '17 in 2:29:17**

Chicago Marathon, *The Team to End AIDS*

**Oct 9th, '11 in 5:35:42**

BUZZ WORDS

Languages

- Bash
- C++
- Python
- YAML
- HCL
- Java
- Golang
- PHP
- PowerShell
- Typescript
- Web Developement
- R
- Erlang
- Kotlin
- C#
- Ruby

Tools+Envs

- Terraform
- Ansible
- Packer
- Consul
- Vault
- Systemd
- LDAP
- Keycloak
- Docker
- Kubernetes
- Helm
- Tilt
- Earthly
- DataDog
- Elasticsearch
- Postgres
- nginx
- PagerDuty
- AWS
- OpenStack

People Skills

- Agile Development
- Scrum Master
- Manager
- Administrator