# Justin Howard Bolden Barnowski

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CONTACT
INFORMATION

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EDUCATION

**University of Michigan**, Ann Arbor, MI                    **Aug 10 - Dec 13**
*B.S.E. Computer Science, Cum Laude*

EMPLOYMENT     **Neighborhoods.com, LLC**, Chicago, IL

*DevOps and Enterprise Services Manager*                    **Oct 21 - Present**
- Led and completed the hiring process for multiple open positions.
- Remediated newly uncovered vulnerabities in underlying open source software.
- Assisted in onboarding and offboarding activities as needed.
- Led war room sessions through numerous AWS outages.
- Maintained internal authorization and authentication systems.
- Developed reusuable infrastructure as code for deploying Postgres clusters on AWS RDS.

*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 contanerized environments.
- Deployed Machine Learning models to benefit the business's 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, and rebooting, 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, mostly containing data systems.
- Participated in FedRAMP audit interviews for renewal of SpringCMs status.
- Tools utilized: SaltStack, Gitlab, VMWare, Hashicorps Consul and Vault.

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

*Lead QA Engineer Genomic Data Commons*                    **June 18 - March 19**
1. Led operational readiness review meetings (a Go, No-Go, decision meeting) with multiple stakeholders per release. The most common stakeholders were the Ontario Instiue of Cancer Research (OICR) and National Instiue of Health (NIH). Found and presented existing system and data defects to advise the room on a course of action.

2. Led a team of two FTE SDETs and four student interns validating and automating validation of new features and regressions. Took on mentor status with a few students, advising them on how to best acheive their goals. Interviewed numerous DevOps and SDET candidates. Reviewed tens of thousands lines of code.

3. Assisted with design and architecture development. Including versioning of files at the Petabyte scale, segmenting data between users, and a quarterly meeting at NIH headquarters to discuss future infastructure improvements and workflow designs.

4. Utilized the python library PyPOM (Page Object Model) to greatly reduce copy and pasted test code, and increase the maintainablity of our testing infastructure. This library is instrumental in giving all testers a consistent way to solve timing problems in test code.

*Software Engineer in Test Genomic Data Commons*                                    **June 17 - June 18**

1. Making the auto_qa repository into a functional service. We can now deploy auto_qa as a service within a cluster to validate that particular cluster. We are able to now run chrome headlessly both locally and on an auto_qa service. Additionally, these tests are able to be scheduled at regular intervals. Before this was a manual process to run auto_qa locally while connected to a VPN to validate that given environment. We now have the ability to conditionally execute tests which require authorization tokens. Finally, auto_qa had 26 runnable tests when I started, it is now 239. At least 150 of those were written by me.

2. Working within the gdcapi for both unit and end to end tests. Refactored the gdcapi unit tests to to maintain consistent code coverage with reduced execution time (on TravisCI from 30 min to 8 min). This allows developers to move faster with the confidence that their changes did not break anything. Automated (12/20) of the API regression tests by translating curl calls to simple python tests utilizing the requests library. These tests run daily, and will free up one manual tester for about half a day per release cycle. Identified pain points within the gdcapi around BAM slicing requests producing unnecessary crosstalk through consul to other gdcapi machines.

**Tophatter Inc**, Palo Alto, CA

*Developer*                                                                          **June 16 - Feb 18**
- Upgraded Android applications user interface to Googles Material Design specifications.
- Orchestrated A/B tests to determine optimal user experience and fulfillment of Tophatters 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.
- Libraries/Tools used while at Tophatter: databinding, crashlytics, eventBus, picasso, PubNub, FB and Google signup, and braintree payments.

**Ericsson Inc**, Santa Clara, CA

*Developer*                                                                          **June 15 - June 16**
- Maintained and enhanced the web app half 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 EEPods 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

VIRTUAL       **Android Developement**

Tophatter                                                                     **Android Java**

Ericsson                                                           **Multi-Client Shell Interface**

Trend Phrase                                                                  **UI Class**

Stock Stalkers                                                      **Mobile U.I. Senior Project**

Friend Finder Yahoos Hack-U competition                                       **Fall 10**

REAL          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 | Tools+Envs | People Skills |
|---|---|---|
| - Bash | - Terraform | - Agile Development |
| - C++ | - Ansible | - Scrum Master |
| - Python | - Packer | - Manager |
| - YAML | - Consul | - Administrator |
| - HCL | - Vault | |
| - Java | - Systemd | |
| - Golang | - LDAP | |
| - PHP | - Keycloak | |
| - PowerShell | - Docker | |
| - Typescript | - Kubernetes | |
| - Web Developement | - Helm | |
| - R | - Tilt | |
| - Erlang | - Earthly | |
| - Kotlin | - DataDog | |
| - C# | - Elasticsearch | |
| - Ruby | - Postgres | |
| | - nginx | |
| | - PagerDuty | |
| | - AWS | |
| | - OpenStack | |