AARON BLYTHE

Data Scientist and Cloud Architect

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Experienced architect and leader with a track record of success looking to take on data science challenges

**NAIC, Sr. Enterprise Business Intelligence & Data Architect:** May 2018–Present

* Lead a team of eight engineers
* Migrated applications from on-premises data center to AWS cloud
* Designed and implemented CI/CD pipelines using Gitlab
* Lead explorations into monitoring and alerting using Dynatrace SaaS, VictorOps, ELK (Elastic Search, Logstash and Kibana), AWS Lamda and many other tools
* Taught classes on Gitlab, CD/CD, and Application deployment cycles
* Connected Gitlab to EKS Kubernetes cluster to deploy applications using Helm charts
* Developed machine learning models for predicting lead indicators of insurance company insolvency
* Shipped production applications through the pipeline to the AWS EKS Kubernetes cluster
* Developed plan to migrate hundreds of applications to the cloud
* Planned, organized, and ran a Hackathon
* Started and lead a culture committee focused on intentional culture

**New Relic, Solution Architect:** August 2017–May 2018

* Provided proof of concepts for synthetic monitoring, agent installation through Ansible, browser Javascript monitoring focused on video and many other technologies as needed
* Developed DevOps practices that are documented on New Relic’s website [(https://docs.newrelic.com/docs/using-new-relic/welcome-new-relic/measure-devops-success/guide-measuring-devops-success](file:///Users/ablythe/Downloads/(https:/docs.newrelic.com/docs/using-new-relic/welcome-new-relic/measure-devops-success/guide-measuring-devops-success))
* Presented the rollout of DevOps practices to the entire sales workforce at the company
* Presented demos of New Relic functionality at companies across the country spanning many industries
* Completed full sales cycles from introduction to signing at many companies
* Delivered full- and half-day education sessions to multiple customers

**Hearst Business Media, Sr. Automation and Systems Architect:** October 2015–August 2017

* Guided multiple Hearst companies through DevOps migrations to the AWS cloud
* Created CloudFormation templates to deploy Chef Server
* Created a company-wide reporting application that pulled data from the Pager Duty, New Relic and Chef API’s using Ruby on Rails
* Developed a weekly podcast to promote discussion of the virtues of DevOps
* Taught classes to dozens of engineers across many subsidiary companies under the Hearst umbrella

**Cerner Corporation:** January 2003–October 2015

*Knowledge Architect, Operations Infrastructure: March 2013–October 2015*

* Managed teams leading technological change in DevOps, Big Data and Search
* Introduced and nurtured the use of configuration management using Chef throughout the entire organization
* Operationalized the use of Splunk and Zabbix for monitoring, troubleshooting and alerting throughout the company
* Designed and developed the search application for the latest generation of EMR using Solr Indexes, HBase, Hadoop, and many other big data technologies
* Designed and developed many Ruby on Rails applications for both commercial and internal use
* Developed and delivered full-day education sessions on DevOps culture and tools for the new architects
* Developed and delivered full-day education sessions on the DevOps tool chain for teams starting out on the platform
* Developed and delivered education on dealing with complexity for every new engineer (taught this content for over 8 years)
* Managed a portfolio of millions of dollars of software licenses of DevOps tools.
* Delivered regular organization-wide updates to an audience of around one thousand people

*Sr. Software Architect, Cerner Store: March 2010–March 2015*

* Architected and managed a Ruby on Rails e-commerce site
* Developed a catalog system, an orders system, and connections to many other parts of the business
* Developed and led an overhaul of the identity management system for all Cerner non-PHI systems
* Connected website to credit card processing subsystem

*Sr. Software Architect, Semantic Solutions: November 2011–February 2014*

* Used Apache HBase and Solr technologies to index the Electronic Medical Record (EMR)
* Managed a productive team of talented, eager, and focused engineers to collaboratively create and maintain a stack of software focused on search
* Utilized Twitter Storm for real time processing, Map Reduce for batch processing into Solr.
* The data is accessed through a stack using Java, Groovy, and Ruby. All code is deployed using Chef.

*Quality Architect, Development Organization: January 2008–March 2010*

* Created CernerCast, a knowledge sharing application for engineers that combined functionality similar to YouTube and RailsCast
* Developed an organization-wide Root Cause Analysis program, where recent important defects were evaluated monthly to improve development processes and outcomes across 20 different teams
* Developed a Perl/CGI business intelligence site for Windows crashes
* Analyzed and created many tools for organization-wide use

*Software Architect/Engineer, PowerChart: January 2003–January 2008*

* Collaborated with a team to design and implement a major refactor of an EMR that serves roughly 20% of major hospitals in the US
* Worked on many framework enhancement projects, including but not limited to: UTC, printing, launching external applications, common context menus, patient lists, patient summary sheets, allergies

**Education**

* MS Computer Science, Focus in Data Science – August 2020
  + University of Illinois – Urbana Champaign – 4.0 GPA
* BS Industrial Engineering – Dec 2002
  + University of Illinois – Urbana Champaign – Alpha Pi Mu Honors
* Study abroad – 2002
  + Griffith University Gold Coast Australia

**Certifications**

* AWS Certified Developer, Associate – January 2020
* TOGAF 9.2 Certified Enterprise Architect – January 2020
* AWS Certified Solutions Architect, Associate – September 2019
* New Relic Certified Performance Pro – March 2018
* Splunk Certified Admin – October 2015

**Skills**

* Data analysis in R and Python
* Building solid tech stack tool chains
* Public speaking
* Leadership, mentoring and coaching
* Creating flow for software delivery
* Building consensus

Organizations

* Lead Organizer of DevOps KC Community and monthly meetup
* Lead Organizer and MC of DevOpsDays Kansas City Conference
* Member of Golden Key International Honour Society
* Member of Mensa
* Member of Association of Enterprise Architects

**Accomplishments**

* 4.0 GPA at #5 computer science school in nation [(https://www.usnews.com/best-graduate-schools/top-science-schools/computer-science-rankings](file:///Users/ablythe/Downloads/%20(https:/www.usnews.com/best-graduate-schools/top-science-schools/computer-science-rankings))
* Selected as Cerner Masters Award for Top 1% in 2012 in first ever round at the #13 most innovative companies in the nation according to Forbes that year [(https://www.bizjournals.com/kansascity/news/2013/08/16/forbes-ranks-cerner-among-worlds-most.html](file:///Users/ablythe/Downloads/(https:/www.bizjournals.com/kansascity/news/2013/08/16/forbes-ranks-cerner-among-worlds-most.html))
* Worked and lead initiatives at Cerner during the 12 years of exponential stock growth
* Graduated as part of the Industrial Engineering Honor Society from the #4 engineering school in the nation
* Lead Organizer of 4 world class technical DevOpsDays conferences and 6 year of meetups (based on Net Promoter Score of attendees (<https://en.wikipedia.org/wiki/Net_Promoter>)
* Presented at over 30 public conferences on topics including technology, culture, security, development, operations, and machine learning