Bryan Malyn

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Technical Knowledge

- Python
- Rust
- Java
- JavaScript/TypeScript
- HTML
- PHP
- C
- AWS
  - Glue
  - Neptune
  - SageMaker
  - RDS (Aurora)/Dynamo
  - ECS/EC2/Lambda
  - S3
  - CloudFormations/CDK
- Spark
- Relational Databases
- REST APIs
- GraphQL
- Linux
- Git

Work Experience

Capital One

Sep 2022 - Present

Software Development Engineer II

Create ETL pipelines to transform historical transactions data, validate, and submit it to various downstream systems using a variety of different publishing patterns. Work closely with cross-functional teams to ensure data integrity and compliance.

Recognized by VP for completing the largest system migration at Capital One to date.

Amazon

Sep 2022 - Jul 2024

Software Development Engineer II

Worked on the Privacy team to create data lineage tools to help Amazon comply with regulations such as General Data Protection Regulation (GDPR), California Consumer Privacy Act (CCPA), and Digital Markets Act (DMA) using prediction models for which applications were likely to have various kinds of sensitive information based what other applications they connect to attested that they have.

Samsung Austin R&D Center (SARC)

Nov 2017 - Sep 2022

Senior Engineer Mar 2021 - Sep 2022

Engineer II Nov 2017 - Mar 2021

Product owner of critical tools including: CFEngine, Testnfra, GraphQL, and our CMDB; including managing the required infrastructure to support these tools and performing critical updates. Create tooling in our configuration management tool, CFEngine, which makes it easier for other team members to make changes to installed packages or to lay down files (templated, raw files, and files from an http sources). This is done by writing CFEngine policy that parses through json files which describes what files will be placed, what permissions will be set on the file, who owns (user/group), and where those files come from. Provide tooling around our CMDB; including command line tools, REST API and GraphQL. GraphQL exposes all of the data in our CMDB through and augments the data with data from many other sources including: snmp, Zenoss, Jira, Splunk, Infoblox, Satellite, and ELK(Testinfra backend). Automated Zenoss monitoring of systems by synchronising with our CMDB to add/remove devices as they come online and are retired; and to update device production states, monitoring templates, and roles.

International Business Machines Corporation (IBM)

Aug 2015 - Oct 2017

Cloud Automation Specialist

Created tools to ease my team's effort for periodic revalidation processes. Created new processes to decrease our clients' workloads, with a focus on security compliance. Created an IoT system, in Python, to record metrics from our labs including power, temperature and humidity. Created graphs and alerts based on those metrics using InfluxDB, Grafana, and Kapacitor.

Recognised twice for the Manager's Choice Award for the practice *Dare to Create Original Ideas*.

Work Experience (Continued)

U.S. Customs and Border Protection (CBP)

Summers 2012 - 2014 — Wireless Systems Program Office Intern

Compiled lists of radio sites across the nation. Optimised a data migration process from various projects to a standardised file structure, which would have taken months to do by hand. Created a process to calculate Operational Availability, and highlighted critical information.

Summer 2011 — Chief Technology Office Intern

Increased usability of an inventory database by gathering meta-data for thousands of entries. Investigated a middleware platform, and documented my findings to decrease the time other groups would spend on standing it up in the future.

Jun 2009 - Aug 2010 — Field Technology Officer Intern

Worked on a dynamic IT team that provided server maintenance and support to our customers, both in person and over the phone.

Certifications

Jan 2021 — ITIL® Foundation Certificate in IT Service Management · **PeopleCert**

Conferences

Aug 2015 — Critical Alternatives 2015: 5th Decennial Aarhus Conference
Published and demoed: *Light is Loud: A Sound Driven LED Suit*

Dec 2014 — 8th International Conference on Ubiquitous Computing and Ambient Intelligence
6th International Work-conference on Ambient Assisted Living (UCAmI & IWAAL 2014)
Published: *The Brightnest Web-Based Home Automation System*

Education

May 2015 — Bachelor of Science in Computer Science, **Virginia Tech**, *Blacksburg, VA*
Magna Cum Laude · Major: Computer Science · Minor: Math
Capstone: Creative Computing · Advisor: Prof. Steve Harrison

Fall 2013 - Spring 2014 — Study Abroad at **Luleå Tekniska Universitet**, *Luleå, Sweden*
Course Work: Masters Level Computer Science and Swedish Language