

# Brad Schwartz

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## Experience

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### Capital One Financial

#### Software Engineer, Enterprise CICD

Dallas, TX; Feb. '21 – Present

- Core contributor to internal Jenkins libraries, leading to a 20-30% decrease in build times, more secure controls for production releases, and stronger integrations with AWS and enterprise systems
- Migrated business-critical applications from customized Jenkins flows to standardized and resilient pipelines, enabling higher usage of reusable features and controls
- Maintainer of internal Homebrew tap, promoting easier production and distribution of development tools

#### Software Engineer, Auto Loans Core Decisioning Platform

Dallas, TX; Sept. 2019 – Feb. 2021

- Transitioned core auto finance decisioning engine from weekly batch process to real time API for declining delinquent credit card customers, leading to fewer breakdowns due to data issues and decreasing unintended lending by 5%
- Split 10 year old PL/SQL stored procedure into microservice based platform for sending explanatory letters when auto loans are not granted, resulting in fewer breakdowns, higher monitoring in the form of Splunk dashboarding, and fixing multi-year regulatory issue
- Rebuilt internal web application for tracking auto loan applications, integrating a Java back-end for pulling historical data from Snowflake and displaying through an Angular 6 front-end

#### Data Engineer, Risk and Regulatory Tech

Richmond, VA; Sept. '18 – Sept. 2019

- Overhauled cloud infrastructure, utilizing Jenkins pipelines and Docker-ized deployment tools to automate manual processes and allow for push-button deployment of code to Elastic MapReduce clusters and 25% cost-savings
- Facilitated the migration of multiple data sources and sinks across AWS Virtual Private Clouds and enablement of HTTPS traffic, allowing for a single source of truth for regulatory data and tighter restrictions on data access
- Heavily involved in Technology and Development groups, devoted to teaching new technology and personally authored and led an 8-week learning series to get employees AWS Solutions Architect Associate certified

### Western Digital Corporation

#### Big Data Intern, Cloud Innovation Lab

San Jose, CA; Summer '17

- Extended Python scripts used for automatic tagging of Amazon Web Services resources in order to achieve better tracking of usage and cost, and more thorough report generation
- Built and deployed a Flask web application using Docker containers, integrated with AWS Elastic Container Service and AWS ElastiCache, allowing for a load-balancing service with a responsive delivery system
- Deployed multiple internal web applications, identifying key issues with firewall port and application blocking while gaining familiarity with networking protocols and server-side development

## Technical Skills

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#### Programming Languages

- Python, Bash, Java, Groovy, SQL, TypeScript

#### Software Technologies & Frameworks

- Amazon Web Services, Git, Docker, Jenkins, Ansible, Apache Spark, Angular

#### Certifications

- Amazon Web Services Solutions Architect Associate

## Education

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#### University of Michigan, College of Engineering

2014–2018

- **Major:** Data Science Engineering **Minor:** Physics
- **College Work Experience:** CERN Intern and High Dimensional Data Analysis Research Assistant