Brad Schwartz

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Experience

Capital One Financial

Principal Software Engineer, Enterprise CICD Remote, CA; Feb. '21 – Present

- Core contributor to internal Jenkins libraries, leading to a 20-30% decrease in in build times, more secure controls for production releases, and stronger integrations with AWS and enterprise systems
- Led the migrations of business-critical applications from customized Jenkins flows to standardized and resilient pipelines, enabling higher usage of reusable features and controls
- Developed multiple tools and services that improved developer experience by removing complexity and arbitrary-uniqueness while productionizing Docker-based microservice applications
- Maintainer of internal Homebrew tap, promoting easier production and distribution of develoment tools

Software Engineer, Auto Loans Core Decisioning Platform Dallas, TX; Sept. '19 – Feb. '21

- 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. '19

- 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

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

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