MICHAEL RICHTER

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EXPERIENCE

Capital One, Richmond, VA AUGUST 2020 – Present
Senior Associate Software Engineer
- Developing, testing, and deploying over 20 AWS Lambdas to perform data transformation, file delivery, and RESTful API calls
- Executing annual disaster recovery exercises for AWS EC2, Lambda, and RDS components across regions, ensuring system resilience and operational readiness
- Building a daily email report with a SQL script in Databricks to identify closed and charge-off credit cards
- Implementing additional endpoints in Java that enables API pagination of loan data
- Conducting API load testing with Apache JMeter to assess relational database performance via Java-based data access frameworks
- Automating deployments of AWS S3 bucket configurations, policies, triggers across environments and regions for 15 buckets improving consistency and lowering maintenance efforts
- Eliminating a previously manual data transformation process by leveraging Pandas and Integrating an API for automated data uploads, improving accuracy and efficiency by 90%
- Directing the full development, deployment, and production rollout of an insurance tracking compliance component encrypting external ZIP files with PGP keys on AWS Lambda; partnered with product stakeholders for end-to-end testing, eliminating duplicate document uploads and saving 30 associate hours each month

OpenDSA, Blacksburg, VA August 2019 – December 2019
Undergraduate Research Assistant
- Designed and developed data structure visualizations for an open-source textbook programmed in JavaScript
- Collaborated with a team of 7 to create a comprehensive textbook on programming language constructs, created for 200 students to use throughout each semester

Old Dominion Freight Line, Thomasville, NC May 2019 – August 2019
Software Engineer Intern
- Developed 4 RESTful web services using Spring Boot in a microservices architecture
- Generated $50,000 in daily revenue by marking loading zone codes on freight delivery
- Led integration and function testing by creating a mock service and produced over 50 test cases

Identity Management Services, Blacksburg, VA October 2018 – May 2019
IMS Intern
- Automated internal ServiceNow user form workflows using JavaScript, streamlining access management requests for over 30,000 Virginia Tech students
- Restructured user documentation for processing identity requests at Virginia Tech, improving clarity and reducing processing time by 50% for a team of 5 internal users

EDUCATION

Virginia Tech, Blacksburg, VA MAY 2020
Bachelor of Computer Science, Minor in Mathematics

SKILLS

Languages: Python, Java, JavaScript, Bash, SQL
AWS: Lambda, EC2, RDS, SNS, S3, CloudWatch, Route53, IAM
Tools: Git, Jenkins, Docker, Postman/cURL, Unix, JIRA
Certification: AWS Certified Cloud Practitioner