

Alexander E. Dziarnowski

Software Engineer

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Profile Summary

- Accomplished Software Engineer with a wealth of experience delivering complex projects within fast-paced environments such as Capital One.
- Talented Full-Stack Developer with technical skills in programming languages (JavaScript, Python, Typescript), frameworks (Vue.js, React.js), and cloud services (AWS, Terraform, AWS RDS).
- Engaged collaborator with strong interpersonal skills, able to influence and align multiple teams with conflicting priorities to drive progress under aggressive time constraints.

Education

Virginia Polytechnic Institute and State University  B.Sc. in Finance

Blacksburg, VA 2016-2020

Technical Skills

Programming Languages: JavaScript, Python, Typescript, HTML, CSS

Frameworks & Libraries: Vue.js, React.js

Databases: AWS RDS, DynamoDB

Dev Tools: Git, Jenkins

Cloud & DevOps: AWS, Terraform

Certifications: Amazon Web Service Solutions Architect Associate, Jun. 2023

Professional Experience

Capital One

McLean, VA

Software Engineer (TDP - Technology Rotational Program)

Aug. 2022 - Present

- Contributed to the software development lifecycle by designing and implementing features for the Nuxeo platform, delivering clean and scalable code in Python, with AWS, Jenkins and Terraform.
- Collaborated within a pluridisciplinary team including internal teams in the Enterprise Consumer Product org and external customers like JCPenny, and identified functional & system requirements, researched adequate technologies, and selected design patterns.
- Engineered and maintained a scalable infrastructure using ECS, Redis, and RDS to host the Nuxeo platform, supporting over 200 customers.
- Designed and implemented an automatic failover system across east and west regions, leveraging Route53, SNS, CloudWatch Alarms, and Lambda, resulting in a maximum of 3 minutes of downtime.
- Architected and deployed AWS infrastructure using Terraform templates and Jenkins pipelines. Developed Python scripts for automated provisioning, rehydration, and testing of deployments in AWS, while also remediating vulnerabilities across the team's infrastructure.
- Design and implement efficient tests using PyTest, achieving a 100% test coverage and minimizing bug escape rate.
- Offered insightful guidance to a group of interns, thereby clarifying the complex inner workings of the company and the effective use of specific company technologies, an effort that led to a notably faster integration into the workplace.

Front-End Engineer (TDP)

Aug. 2021 - Aug. 2022

- Redesigned UI with JavaScript, Typescript, Vue.js, HTML, and CSS, enhancing voice application usability.
- Improved back-end performance by migrating from Restify to Fastify and converting from AWS ECS to AWS Lambda, achieving 50% faster requests and meeting the company's serverless goal.
- Implemented testing frameworks including Cypress, Jest, Mocha Chai, Sinon, and Vue Test Utils
- Led a group on data structures and algorithms to foster team skill development.

Software Engineer in Training

Feb. 2021 - Aug. 2021

- Developed a full-stack application using JavaScript, React.js, HTML, CSS, and AWS to distribute sandbox accounts to Capital One employees, streamlining internal workflows. Designed and implemented cloud architecture on AWS, enhancing the management and cleansing of accounts, while collaborating within an agile development team.

Ampcus Incorporated Finance Intern

Chantilly, VA Jun. 2019 - Aug. 2019

Projects Experience

Resume Website (Cloud Resume Challenge)

Jul. 2020

- Integrated CI/CD workflows with Python unit testing and GitHub actions, streamlined infrastructure using AWS SAM, CloudFormation, and GitHub, and crafted a view counter utilizing HTML, CSS, JavaScript, Lambda, and DynamoDB.

Uniswap Trading Bot

Oct. 2020

- Implemented a Python-based system leveraging Ethereum smart contracts to scan prices and execute trades, achieving a transaction speed increase and handling multiple simultaneous transactions.