

Laura Josuweit

Software Engineer

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Professional Experience

The Vanguard Group — Malvern, PA

Application Engineer

2019 – Current

- Built serverless applications connecting on-prem order management systems to cloud-based portfolio management tools in AWS, using Lambda, SQS/SNS, ECS, DynamoDB, and Step Functions (Java, TypeScript, Go)
- Designed and implemented a manual dead-letter replay mechanism enabling selective retry of failed orders, eliminating the need for portfolio managers to recreate trades after system failures
- Restructured application architecture to use Step Functions for orchestration, enabling complex workflows and retries beyond the 15-minute Lambda execution limit
- Designed and iterated on an internal tool to automate a new type of order crossing between trading desks, allowing for cost-saving trades that would not have otherwise been possible
- Served as subject matter expert on the Control-M job ecosystem facilitating Vanguard's equity order-management lifecycle in Charles River OMS (Groovy, Java, SQL)
- Led incident trend analysis and remediation efforts, reducing the team's production incidents by 61% over three years

The Vanguard Group — Malvern, PA

IT College to Corporate Intern

Summer 2017 and Summer 2018

- Eliminated test failures on the Public Site Team – contributed to Java, JavaScript, HTML/CSS, and XML codebases

Education

Bloomsburg University

Aug 2015 – May 2019

BS Mathematics and Computer Science
GPA: 3.98/4.0, Honors Program

Languages & Skills

Languages	AWS Cloud Infrastructure
Java	Lambda
Golang	SQS & SNS
SQL	Step Functions
TypeScript	ECS
SPLUNK SPL	DynamoDB

Certifications

AWS Certified Solutions Architect – Associate

Amazon Web Services
Nov 2020 – Current

CFA Investment Foundations Certificate Holder

CFA Institute
Dec 2021

Professional Scrum Developer™ I (PSDI)

Scrum.org
Sep 2023