

# Yash Walankar

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## EXPERIENCE

### Software Engineer - Payments

Oct. 2023 – April 2025

Arlington, Virginia

*MarginEdge*

- Designed and built an AWS-based payment processing service for accounts payable, integrating with external card processors and vendor networks to support secure card vaulting and end-to-end payment workflows (payments, voids, refunds), contributing to a 3% increase in product revenue.
- Engineered and optimized a high-throughput payment system supporting multiple transmission methods (check, VCC, ACH), including NACHA processing, reliably handling daily transaction volumes exceeding \$1M.
- Developed vendor statement reconciliation workflows and integrated the payment system with external accounting platforms, ensuring accurate financial reporting and streamlined accounts payable operations.
- Spearheaded the frontend migration from Angular to React, while simultaneously developing new React components.
- Engineered a comprehensive monitoring system with automated alerting, real-time notifications, and performance dashboards, reducing incident response time and improving system reliability.

### Software Development Engineer I

July 2021 – Oct 2023

Arlington, Virginia

*Amazon - Alexa Ad Enabled Content Systems*

- Engineered and optimized ETL pipelines for large-scale ad revenue and impressions datasets by implementing incremental processing, query optimization, and partition tuning, reducing processing time by 20% and improving ad targeting accuracy by 10%.
- Collaborated cross-functionally with BI and BD to develop a config-driven reporting platform that automated engagement and revenue analytics including SES-driven email delivery for 121 external providers, eliminating manual reporting and accelerating decision-making.
- Designed and led development of a GDPR and DSAR privacy compliance application, ensuring regulatory compliance for the team's datasets.
- Implemented and refined event-driven SQL anomaly detection service using AWS Lambda, enhancing data integrity and proactive issue resolution.

### Amazon Web Services - Console Configuration

- Owned and maintained internal tooling powering AWS Console home configurations, supporting over 200 AWS services globally.
- Partnered with multiple service teams to configure AWS Console integrations for the ap-southeast-3 region launch.
- Earned recognition for exceptional on-call performance, consistently meeting or exceeding resolution targets and strengthening operational resilience.

### Software Engineering Co-op

Jan. 2020 – Aug. 2020

Monroe, Michigan

*Tenneco Inc.*

- Optimized and automated the build process, reducing object code compilation time by 30%, improving development efficiency.
- Developed and implemented an automated HIL data test vector verification system for intelligent suspension models using Python and Pandas, enhancing validation accuracy and efficiency.
- Built Jenkins CI/CD pipelines from scratch, automating build and test workflows and increasing development velocity.

### Engineering Co-op

Aug. 2018 – Dec. 2018

Bowling Green, Ohio

*Regal Beloit Inc.*

- Designed and developed an Android application for the Marathon Special Products Catalog, leveraging Firebase for real-time data and inventory management.
- Prototyped and programmed an IoT device using Embedded C on an STM32 board, integrating multiple sensors to collect and analyze vital data from Power and Terminal blocks.

## TECHNICAL SKILLS

JAVA  
Python  
TypeScript  
C/C++

SQL  
React  
noSQL  
CI/CD

AWS CDK  
Docker  
Git  
Microservices

Node.js  
Spring Boot  
APIs  
ETLs

## EDUCATION

### University of Toledo

Toledo, Ohio

Bachelor of Science in Computer Science and Engineering, Minor in Mathematics.

Aug. 2016 – May 2021