

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 overall 3 % increase in payment volume.%
- 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.
- Leveraged Amazon SES to design and develop a communications microservice, optimizing email, and SMS notifications to enhance customer engagement and ensure timely transaction confirmations.
- 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 to ingest and process large ad revenue, analytics, and impressions datasets for Alexa News and Video, reducing processing time by 20% and improving ad targeting accuracy by 10%.
- Partnered cross-functionally with BI and BD teams to automate reporting on engagement and revenue data for 121 external providers, streamlining analytics and decision making.
- Designed and led the 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 enhancing system reliability.

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.
- Integrated and streamlined build and test processes with Jenkins pipelines and Git, improving CI/CD efficiency and reliability.

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 Google 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