

Yash Walankar

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EXPERIENCE

Software Engineer - Payments

Oct. 2023 – April 2025

MarginEdge

Arlington, Virginia

- 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

Amazon - Alexa Ad Enabled Content Systems

Arlington, Virginia

- 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

Tenneco Inc.

Monroe, Michigan

- 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

Regal Beloit Inc.

Bowling Green, Ohio

- 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	SQL	AWS CDK	Node.js
Python	React	Docker	Spring Boot
TypeScript	noSQL	Git	APIs
C/C++	CI/CD	Microservices	ETLs

EDUCATION

University of Toledo

Toledo, Ohio

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

Aug. 2016 – May 2021