Patrick Kearney

Software Engineer · 4+ years of experience

Software engineer specializing in payments and e-commerce systems. I modernize legacy services, build cloud-native APIs on AWS, and ship well-tested code in Java and TypeScript.

London, Ontario, Canada · Open to remote and hybrid roles · patrick.kearney27@gmail.com · github.com/peakears · linkedin.com/in/pkearney4

EXPERIENCE

Software Engineer · CARFAX

Mar 2025 – Present · London, ON

- Helped plan, design and build a new payments and tax platform on the open-source MedusaJS commerce framework, using its built-in data model to speed up delivery.
- Designed a Java 17 Tax API that lets internal teams quote and record sales tax through one shared service.

Java 17, TypeScript, MedusaJS, Vertex

Associate Software Engineer · CARFAX

Jan 2022 – Mar 2025 · London, ON

- Maintained integrations with multiple payment providers for the consumer purchase flow.
- Upgraded payment services from Java 8 to Java 17 and replaced a 20-year-old payment-gateway SDK with direct, API-driven integrations.
- Rewrote a legacy Java 8 application as a TypeScript AWS Lambda and cut traffic over at the API gateway with zero downtime. Added automatic 30-day rotation of its encryption key.
- Built a Google Pay proof of concept on the checkout page and ran an A/B test to measure its value. The data showed it wasn't worth the added complexity, so we chose not to roll it out.

Java, TypeScript, AWS Lambda, AWS Secrets Manager

EDUCATION

Computer Programming Analyst · Fanshawe College

2018 – 2021 · London, ON

★ President's Honour Roll

SKILLS

Languages: Java, TypeScript, JavaScript, SQL, C++

Backend & APIs: Spring Boot, Node.js, Express, MedusaJS, REST, OpenAPI / Swagger, Zod, Jackson, Lombok

Frontend: React, Next.js, Tailwind CSS

Cloud (AWS): Lambda, API Gateway, ECS / Fargate, RDS / Aurora, SQS, S3, EventBridge, SES, EC2, IAM, KMS, Secrets Manager, CloudWatch

Infrastructure & CI/CD: AWS CDK, Terraform, Serverless Framework, Docker, Docker Compose, Gloo Gateway, GitLab CI, Jenkins

Databases: PostgreSQL, MySQL, Redis, DynamoDB, MongoDB

Payments & Commerce: PayPal, Amazon Pay, Google Pay, Chase Orbital, Vertex (tax), PCI DSS (SAQ A & D), Optimizely A/B testing

Testing: JUnit, Mockito, Jest, Vitest, React Testing Library, Playwright

Observability: New Relic, Grafana, PagerDuty, CloudWatch

Build & Dev Tools: Gradle, Maven, npm, Yarn, Prettier, IntelliJ IDEA, VS Code, Postman, Bruno, Linux, Bash / Zsh

Collaboration: Git, GitHub, GitLab, Bitbucket, Jira, Confluence, Agile

AI-Assisted Development: Claude Code, GitHub Copilot

Currently Learning: Python, Go, Rust

PROJECTS

This Website

A statically exported Next.js resume site with typed content, unit tests, end-to-end tests, and automated accessibility checks.

Next.js, TypeScript, Tailwind CSS, Vitest, Playwright