

Michael Paquette

Senior Software Engineer and Senior Web Developer

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Most recent experience (last 12 months)

- Designed postgres schema using dbdiagram.io (great tool for designing in a team)
- Built Java 20 Rest API to support soulbound's gaming platform
 - with roles and crud permissions
 - per build tests that run seed data against real-world uses cases to deliver more bug-free features
 - connected youtube, x.com, discord and twitch api using oauth with customer's authorization
 - used sentry for logging and betterstack for heartbeat services
 - All incoming data validated to the correct format and types
 - Used very little of the magic of frameworks and stuck with core java and libraries only
 - Tech: Maven, logback, jackson, guava, JOOQ, flyway, HikariCP, Jetty, TestNG
- Built a dropwizard rest api to support internal access to polygon.technology and opensea.io
- Built a remix reactjs web application soulbound.gg using zod, zustand, tailwindcss, backblaze, framer-motion and many various scripts for migrating databases
- Built a web application platform consisting of postgres db with two nodejs rest api's, a graphql api, remix front-end, postgres web application to support refundr.ca and dashboard.refundr.ca
- Built a nextjs web application with advanced reactjs components to support SeaMonster UI with data from a Salesforce migration

Montreal, QC | Consultant at Sea Monster, Soulbound and refundr | Feb 2022 – Jan 2024 Senior Full Stack Engineer

- Built Java REST API using Jetty, JOOQ, flyway, sentry, HikariCP, postgresql, jackson, guava.
- Built many web applications using reactjs with typescript, remix, tailwindcss, zustand, zod, stripe, prisma, aws-sdk, express, prettier, helmet.
- Expertise in Node.js and Express.js for server-side applications.
- Deep understanding of RESTful API design and GraphQL.
- Experience with AWS services like EC2, Lambda, S3, and Route 53.
- Proficient in PostgreSQL database management.
- Skilled in AWS Cognito for user authentication and authorization.
- Knowledge of AWS Amplify for full-stack serverless applications.
- Expertise in AWS IAM for access control, SNS/SQS for messaging, EC2, Lambda
- Some expertise building iOS Swift 5 applications

Montreal, QC | Expedia | Sept 2011 – Dec 2021 Senior Software Engineer

- Built a content generation system that used a backend spring batch application with mssql and cassandra storage and a web application using GWT java-to-javascript compiler to connect variables, sentences and paragraphs that created content for hotel and hotel rooms.
- Involved in the analysis, design, and development phases of the Software Development Life Cycle (SDLC) using Agile (SCRUM) development methodology to deliver regular updates to business team and project managers.

- Developed applications using the latest Java/ J2EE technologies and worked with the latest features of Java 8 and Java 11
- Experience in creating real time data streaming solutions using Apache Kafka.
- Expedia backend included the use of the spring framework, spring boot, spring data, and spring batch with a shift to converting kotlin for any new projects in 2018
- for micro services and Kafka as message broker and Cassandra as backend databases. Structures and Collections, and Garbage Collection in Core Java.
- Used AWS EC2, RDS, S3, SNS, SQS, Cognito to implement various solutions across many applications
- Utilised Kotlin programming language alongside Java to develop microservices, leveraging Kotlin's concise syntax and enhanced null safety features.
- Handled high data streams and made use of publish, subscribe, store, and process streams of records in a fault-tolerant and scalable manner using Apache Kafka.
- Collaborated with cross-functional teams to ensure smooth integration of front-end and back-end systems.
- Used Spring Core Annotations for Dependency Injection, Transaction management, Spring MVC
- Scripting and setup of CI/CD Jenkins pipeline to deploy
- Scripting experience with Shell, Bash, and Python for automation and task simplification on Unix/Linux platforms.
- Designed and developed front view components using ReactJS, JSP, HTML5 and CSS3.
- Core Java with Concurrent API is used extensively for parallel processing and chunk processing.
- Developed Rest service for authentication using Spring Boot with embedded Tomcat server. Used spring boot for single sign on page application to access more quickly.
- Worked on creation of custom Docker container images, tagging, pushing images, integration of Spring Boot.
- Designed and developed Spring Data JPA configuration and session-per-request design pattern for making database connectivity and accessing the session for database transactions respectively.
- Developed automated test scripts using Selenium WebDriver, reducing manual testing efforts.
- Used elasticsearch for real-time search and analytics.
- Implemented Database access for MongoDB, MySQL, Postgres and MSSql, developed complex SQL queries, stored procedures and views for extracting data from the database.
- Worked on creating documents in MongoDB.
- Hands-on experience with Multithreading, Exception Handling, Concurrency, Generics, File Handling I/O, Data
- Implemented design patterns as required like MVC, Singleton, Factory, Builder and Service Locator

Montreal, QC | Air Canada | April 2007 – Sept 2011

Senior Full Stack Java Developer

- Used spring batch to build a payment gateway that processed \$1 million in daily credit card transactions
- Developed web application (aircanadavacations.com) using Spring MVC, JSP, and JSTL, CSS, jquery on the presentation layer.
- Responsible for building new features and maintaining performance
- Involved in (SDLC) requirement analysis, to design and develop and implement the application using J2EE technology.
- Implemented spring based microservices used by Air Canada mobile app and worked with an IBM team for integration.
- Developed DAO objects and implemented data access layer using JPA-Hibernate to perform CRUD
- Only dev to add car rentals to the site from the CMS, REST and front-end technologies
- Developed the UI Screens using JSP, JavaScript and HTML5 and did the client-side validation with the JavaScript.

Montreal, QC | Conceptis/WebMD | Oct 2002 – April 2007

Full Stack Java Developer

- One of a small group of people to create theheart.org helping build this startup into a successful business
- Create a medical education platform for certifying CME's in the United States
- Sold to WebMD for \$22 million in 2006
- Developed front end screens using JSP, JSTL, JavaScript, CSS and HTML
- Developed expertise using the Struts framework to deliver REST and JSON endpoints
- Forked main branch, created a post schema and made a template used to create 7 more top-level domains
- Involved in Client-side validation using JavaScript and jQuery.
- Involved in Design Implementation and integration in back and front end of Web Development.
- Implemented application using MVC design pattern.
- Deployed WAR, and JAR files in Tomcat application server.