

Pier-Alexandre Bouchard

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Skills

Languages

- Java (Advanced)
- C#
- PHP
- Javascript/Typescript
- HTML
- CSS

Frameworks

- Hibernate
- Google Guice
- Twitter Bootstrap
- Laravel
- jQuery & JUnit
- PHPUnit & Mockito

Databases

- SQL (PostgreSQL, MS SQL Server, Oracle)
- NoSQL (Redis, DynamoDB)

Libraries

- ZeroMQ
- Guava
- React

Professional Experience

Microsoft, Redmond, WA, USA

SOFTWARE ENGINEER II – Azure (CXP)

Oct 2019 – Present

Technologies: C#, Typescript, React, Redux, Node.js, Microsoft Azure Cloud Services, Microsoft SQL Server, Npm, Jest

I built an internal web application to automatically on-board Microsoft Azure Services to dozens of intelligent and smart diagnostic infrastructures. This ensures an exceptional support experience for Azure's millions of customers.

- Built fully accessible, high-quality React components for faster web development in our internal UI Framework
- Increased team productivity by 86% after set-up of a Continuous Delivery/Deployment pipeline to automatically release development builds of our UI Framework
- Created a Feature Flag library for A/B Testing to safely expose features to our end users

Amazon, Vancouver, BC, Canada

SOFTWARE DEVELOPER ENGINEER – Alexa (HHO)

Aug 2018 – Aug 2019

Technologies: Java, AWS (DynamoDB, Lambda, SQS, S3, EC2), Mockito, JUnit, Spring

I built the highly-scalable backend for hundred thousands of timers to be created and triggered in real-time on 100 millions Alexa devices.

- Designed & built RESTful APIs for timers to be used at a massive scale with low latency (< 2s at P99) in Alexa, Amazon's voice-control system
- Helped natural language understanding (NLU) build timer grammars used by Alexa to understand efficiently human language
- Set up monitoring & alerting for timer infrastructures ensuring reliability and stability of the services

Paradigm, Repentigny, QC, Canada

SENIOR SOFTWARE DEVELOPER – BusinessCore360

Sep 2014 – Aug 2018

Technologies: Java, PostgreSQL, Microsoft SQL Server, Hibernate, Maven, WildFly, Mockito, JUnit

I built BusinessCore360, a custom enterprise resource planning (ERP) tool used by scores of manufacturers of windows, doors, shutters and blinds all over Canada, USA & France.

- Streamlined fabric cutting for the curtain fabrication process by creating a 2D fabric cutting optimizer module for BusinessCore360. This directly minimized fabric wastage and led to annual savings of thousands of dollars for customers.
- Decreased development time and cost related to third-party data imports from ERPs by 70% by developing a generic ETL tool using Microsoft Excel as input format.

Education

Bachelor of Software Engineering (*With distinction*), (2014), École de technologie supérieure, Montreal, QC