






KARAN PATEL

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WORK EXPERIENCE

Full stack Software Developer | Loblaw Digital (Sept-Dec 2019)

- Used **Java Spring** and **SAP Hybris** to develop new emails flows and new features for Checkout services on the Beauty Boutique website.
- Helped in development and **bug fixes** for an internal package tracker tool used in hundreds of Shoppers Drug Marts using **JavaScript** and **React**.
- Heavily participated in **Regression testing** with an aim to improve the online shopping experience for millions of Canadians.

Software Developer | GroupBy Inc. (Sept-Dec 2018)

- Increased the team's output up to **20%** by creating and debugging reusable web components using **TypeScript**, **React**, and **Redux**.
- Wrote automated **Unit** and **Integration** tests using **Jest**, **Mocha**, and **Chai**, as well as performed **Code Reviews** to understand code patterns.
- Proactively participated in **design refinement** meetings with the **Product Designer**.

Software Developer | Cambridge Global Payments (Jan-Apr 2018)

- Developed features and fixed bugs for the main web app using **JavaScript**, **React**, and **Redux**, as a part of the **Agile Scrum** team.
- Fixed conflicting parallel routes issue on a software shipped to 13,000 users worldwide, by implementing an **efficient stack algorithm**.
- Created white-box **Unit Tests** and increased QA team's productivity to **150%** by doing **Regression and Performance testing**.

Product Support Intern | Cambridge Global Payments (May-Aug 2017)

- Developed scripts using **VBA on Excel** for database management.
- Performed explicit **Exploratory QA Testing** on an array of devices and OSes.
- **Researched** and compared various APIs, Blockchain, MFA technologies, and more.

PROJECTS

Eat'em Up! | Java, Android Studio, Gradle, Git

- Android app to reduce food wastage by smartly reminding users about expiring food.
- The app allows the user to scan grocery receipts, maintains an intelligent expiration history to suggest expiry dates, and also a shopping list.

Color Chat Room | JavaScript, NodeJS, WebSocket, HTML, CSS, JSON

- Developed a live client-server web chat application using NodeJS and WebSockets.
- The server assigns a unique color to every new user and sends them the chat history.

JavaSketch | Java, Swing, AWT, Gradle, Git

- A Java application similar to Microsoft paint to draw shapes with changeable features.
- Used graphic transformation and Painter's algorithm for features like move and save.

Quadris | C++, Bash, Git

- Developed a game similar to Tetris, with proper use of design patterns and OOP.
- Created a project UML diagram, implemented graphics and features using MVC.

EDUCATION

University of Waterloo

- Bachelor of Computer Science,
HCI option
(Sept 2015 – April 2020)
- Undergraduate Research Assistantship
(Jan 2020 – April 2020)

SKILLS

Languages:

C, C++, Java, Python, HTML, CSS, Bash, JavaScript, SQL

Frameworks and Tools:

React, Redux, Redux Form, Bootstrap, Material UI, Git, Android Studio, Gradle, NodeJS, Spring, SAP Hybris

Practices and concepts:

Object Oriented Programming, Software Architecture, Design Patterns, UML diagrams, , Agile Scrum Practices, Pair Programming, UX/UI designing

RELEVANT COURSES

- Artificial Intelligence
- Distributed Systems
- Software Design and Architectures
- Computer Security and Privacy
- Computer Networks
- Human Computer Interaction
- Algorithms
- Object Oriented Software Development
- Data Structures and Data Management

OTHER INTERESTS

- Cooking, Molecular gastronomy
- Photography, Exploring places
- Sketching, Art
- Listening to Music