



BALPREET SINGH JAGGI

Toronto ON

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SUMMARY

Senior-level Software and Application Developer passionate about creating cutting-edge products for IoT. Strong work ethic and dedicated to quality assurance. Adept at working with teams or independently in fast-paced settings.

SKILLS

- Programming Languages: Java, Springboot, C/C++,
 - MongoDB
 - Angular, Typescript, HTML, CSS
 - REST API
 - Docker
 - JUnit
 - Git
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EXPERIENCE

Engineering Lead / Persistent Systems - Toronto

11/2022

- Steered multiple software development projects to successful completion, adhering to timelines and budgets
- Trained and mentored junior developers on IoT projects, promoting industry best practices and standards
- Conducted code reviews to enhance code quality and adherence to best practices
- Designed and maintained a distributed microservices architecture, boosting system modularity and reducing dependencies.

IoT Consultant / Software AG - Toronto

07/2018 - 10/2022

- Served as a Full Stack Developer on multiple IoT projects
- Developed microservices with REST API's using Java Springboot
- Created IoT device agents using C++ and Java, utilizing libraries such as libcurl and AWS SDK
- Developed and extended web applications using Angular, HTML & CSS
- Implemented complex event processing applications and microservices using Apama EPL
- Utilized unit testing frameworks such as JUNIT5, Mockito and GUnit
- Created CI/CD scripts for applications in Microsoft Azure.

Student Employee / Software Ag - Darmstadt

09/2016 - 05/2018

- Created a comprehensive educational package with tutorials and exercises for university students learning Apama
- Conducted tutoring sessions to assist enrolled students.

Software Engineer / Aricent Group - Gurugram

09/2014 - 03/2016

- Developed and extended multiple desktop applications for clients such as GoPro and ABB
 - Supported the testing team by improving and debugging an internal application for automation test suites
 - Utilized multiple technologies such as C, Java, JavaFx, and C#.
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EDUCATION AND TRAINING

PROJECTS

CITEGESTION – IoT Integration for Manufacturing

Jan 2024 – Present

Role: Cumulocity IoT Consultant (Frontend & Backend Development)

- Developed a widget using OpenStreet Maps to visualize 10,000 devices and their real-time events with color-coded alarms.
- Added filtering for devices/events by time range and enhanced real-time monitoring.
- Utilized Angular's asynchronous features (Promise.all, RxJS) for efficient data retrieval.
- **Technologies:** OpenStreet Maps, Angular, REST APIs, Async Promises

Shape Technologies – IoT Integration for Manufacturing

Oct 2023 – Feb 2024

Role: Cumulocity IoT Consultant (Frontend & Backend Development)

- Integrated Apama Streaming Analytics, addressing scalability and cross-device compatibility.
- Created custom widgets and microservices for real-time data management and high-volume data processing.
- **Technologies:** Angular, REST APIs, Docker, Apama EPL, Azure CI/CD

Boston Scientific – Axeda Migration for Healthcare

Apr 2021 – Present

Role: Cumulocity IoT Consultant (Frontend & Backend Development)

- Led migration from Axeda to Cumulocity IoT for 20,000+ devices, developed C++ agents with Paho MQTT CPP.
- Implemented AWS SDK file management features and created Azure CI/CD pipelines.
- **Technologies:** Paho MQTT CPP, C++ AWS SDK, Azure CI/CD, Docker, Angular, REST APIs

Deutsche Telekom – Smart Home Migration to Cumulocity IoT

Oct 2019 – Aug 2020

Role: Cumulocity IoT Consultant (Frontend Development & Apama Developer)

- Developed a custom UI widget for multi-floor navigation and EPL application for sensor data aggregation.
- Tackled scalability and data accuracy challenges across multi-building, multi-country setups.
- **Technologies:** EPL, Angular, Node.js, Git, Jenkins, Agile

LANGUAGES

English:


Native/ Bilingual

German:


Limited

Hindi:


Native/ Bilingual