

# Matthieu Crépeau

🏠 Chicago, IL

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*Software Engineer with 9 years of backend-focused experience, designing and implementing high-quality code and leading projects throughout the software development lifecycle. Demonstrated excellence in solving complex problems, consistently delivering impactful solutions*

## Experience

### Staff Software Engineer @ Project44 (Chicago, IL)

Mar. 2022 – Jun. 2023

*Back-end engineer on platform product*

- Rolled out a platform leveraging MongoDB to consolidate disparate sources of data for 750k carriers, exposing an API to easily add/retrieve/update that information (currently sustaining 12M requests/day)
- Designed complex ETL jobs powered by Snowflake SQL queries to gather and cross-reference data across internal systems and unlock insights about carriers and their customers
- Developed and maintained an internal 'Carrier Analysis Tool' as a Java microservice that ingests CSV files containing carrier information and outputs the connection type & status for each, replacing a manual process and resulting in 100s of man-hours saved per month

### Staff Software Engineer @ IBM (Chicago, IL)

Jun. 2016 – Feb. 2022

*Feature lead and developer on cloud storage products*

- Participated in scoping for future features and in all phases of the development process with a constant focus on quality
- Led multiple projects in teams of up to 18 engineers to implement & deliver new object storage functionalities (written in Java) to IBM Cloud as well as IBM's on-premise offering using Agile
- Redacted design documents for defect fixes and feature implementation, leading design sessions to drive defects to resolution and execute on feature implementation projects
- Researched & enhanced the performance of "Accesser" devices, resulting in savings of \$1M+ in IBM's largest object storage customer deployment
- Developed new features for a NFS/Samba interface for object storage using C++ & Cassandra DB and implemented control plane microservices (using Go & gRPC) for the IBM Cloud infrastructure

### Senior Software Engineer @ Motorola Mobility (Chicago, IL)

Oct. 2013 – Jun. 2016

*Engineer on the Wireless, IoT, Sensors and Location team*

- Responsible for Bluetooth stack bring-up, testing and debugging on new hardware platforms
- Implemented APIs in the Bluetooth framework (Java) and stack (C/C++) on Android to enable new functionality and added instrumentation to create metrics aggregated by Google BigQuery
- Created and led the development (hardware & software) of an automation platform for Bluetooth written in Python, resulting in significant time savings and improvement in the depth of tests

## Patents

Crepeau, Matthieu et al. 2017. Detecting Physical Separation of Portable Devices. U.S. Patent 9,582,984 B2 filed April 23, 2015, and issued February 28, 2017.

## Skills

- Languages: English, French (native proficiency)
- Management: Agile, JIRA, Confluence
- Technical: Java, Spring Boot, Python, MongoDB, SQL, Linux/Unix, Kubernetes, UML, Git, C/C++

## Education

- **Master of Computer Science**, Illinois Institute of Technology, Chicago, IL, USA
- **Diplôme d'Ingénieur (Master of Science in Engineering)**, Groupe ESEO, Angers, France  
Minor in Electrical & Computer Engineering - Concentration in Embedded Software Design