


## Software Development Engineer II-3



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Vancouver, Canada

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Posted 14 Days Ago

Full time

R-111041

### Our Purpose

We work to connect and power an inclusive, digital economy that benefits everyone, everywhere by making transactions safe, simple, smart, and accessible. Using secure data and networks, partnerships, and passion, our innovations and solutions help individuals, financial institutions, governments, and businesses realize their greatest potential. Our decency quotient, or DQ, drives our culture and everything we do inside and outside of our company. We cultivate a [culture of inclusion](#) for all employees that respects their individual strengths, views, and experiences. We believe that our differences enable us to be a better team – one that makes better decisions, drives innovation, and delivers better business results.

### Job Title

Software Development Engineer II-3

Who is Mastercard?

Mastercard is a global technology company in the payments industry. Our mission is to connect and power an inclusive, digital economy that benefits everyone, everywhere by making transactions safe, simple, smart, and accessible. Using secure data and networks, partnerships and passion, our innovations and solutions help individuals, financial institutions, governments, and businesses realize their greatest potential.

Our decency quotient, or DQ, drives our culture and everything we do inside and outside of our company. With connections across more than 210 countries and territories, we are building a sustainable world that unlocks priceless possibilities for all.

## Overview

The Integrated Marketing Platform (IMP) team is looking for a Software Development Engineer II to provide technical ownership, with an emphasis on engineering efficiency and on-time delivery.

Candidate should have:

- Good understanding of software development using Agile methodologies
- Good understanding of event streaming, data lineage and usage, data storage, modeling, ETL, and batch file processing
- Experience integrating vendor and open source products into an overall system
- Hands-on experience with Marketing technologies strongly preferred

## Role

Essential responsibilities include, but not limited to:

- Provide strong technical leadership and direction to software development teams and align technical architecture across the engineering organization
- Deep knowledge of software development processes including agile processes, test-driven development and automation of the build and deployment processes (CI/CD)
- Experienced with full-stack Java development, design patterns, threading, unit testing, debugging
- Experience with software development or application engineering with recent coding experience in two or more of the following languages: Java, JavaScript, C/C++, C#, Objective-C, Node.js, .NET, Python, PHP or Ruby
- Experience working with JavaScript libraries, such as BootstrapJS, and/or React.js
- Solid understanding of data with experience in ETL, event streaming, data ingestion, modeling, Big Data (Hadoop/Spark), data visualization & analytics
- Experience with implementing web services and logging frameworks
- Strong verbal and written communication and presentation skills, with ability to represent team at public events such as technology conferences, hackathons, etc
- Ensure that software and system design and delivery support the goal of zero downtime in production

- Ensure development supports all appropriate data compliance and usage requirements, including PCI, GLBA, Safe Harbor, SOX, etc.
- Creates and sustains an environment of ingenuity and creativity and challenges the status quo to encourage innovation

## All About You

- Demonstrates taking accountability, acting with a sense of urgency, and delivering plans with passion, ambition and aptitude
- Ability to manage multiple priorities simultaneously
- Ability to influence and partner with teams outside of the engineering organization
- Proven track record of delivering software projects and willingness to roll up sleeves to get the job done
- Good communication and presentation skills
- Marketing experience desirable. Hands on experience with Marketing technologies strongly preferred.

## Education:

Bachelor's degree in Computer Science, Information Systems or equivalent.

Due to COVID-19, most of our employees are working from home. We've implemented a virtual hiring process and continue to interview candidates by phone or video and are onboarding new hires remotely. We value the safety of each member of our community because we know we're all in this together.

*Mastercard is an inclusive Equal Employment Opportunity employer that considers applicants without regard to gender, gender identity, sexual orientation, race, ethnicity, disabled or veteran status, or any other characteristic protected by law.*

*If you require accommodations or assistance to complete the online application process, please contact [reasonable.accommodation@mastercard.com](mailto:reasonable.accommodation@mastercard.com) and identify the type of accommodation or assistance you are requesting. Do not include any medical or health information in this email. The Reasonable Accommodations team will respond to your email promptly.*

## **Bibliography**

MasterCard. "Software Development Engineer II-3." *Myworkdayjobs*, MasterCard, 31 July 2020, [mastercard.wd1.myworkdayjobs.com/en-US/CorporateCareers/job/Vancouver-Canada/Software-Development-Engineer-II-3\\_R-111041-1?source=Indeed](https://mastercard.wd1.myworkdayjobs.com/en-US/CorporateCareers/job/Vancouver-Canada/Software-Development-Engineer-II-3_R-111041-1?source=Indeed).

Siddhartha Gupta  
304, Meridian, Manpada  
Thane West, Mumbai, 421204  
Phone No.+91 8130245184  
Email: siddhero97@gmail.com

August 11th, 2020

Melinda Garrett

Hiring Manager

Master Card

121 Bloor St E #600

Toronto, ON M4W 3M5, Canada

Dear Mrs. Garrett,

Does your company need a hungry, attentive, hard-working, and responsive developer who is keen to learn, and provide value to your company? As a recent graduate from UBC, I believe my projects, diversity in skills, dev-marketing, and technical communication, makes me a very consumer oriented-developer. This makes it relatively easy for me to work with focus groups and bring in the needs of various departments into my programming methodology.


My data-visualization work for the Terrorism project, allowed me to look at various ways of presenting data and extracting the most valuable information for a dataset. Most large companies usually have an abundance of data on the consumer, which they need to present to the user, other businesses, and each other. My ability to extract and present data to the user is a valuable tool for a consumer-base demanding more data.

Through my back-end work for my software engineering course, I developed an understanding of Scrum development methodology, behavioral-driven development, and Typescript. Most companies have a partial-Agile methodology. Scrum methodology is a subset of Agile. Henceforth, I am in a good position, to understand a consumer-facing methodology. Scrum also splits the goals of individuals into week-sized goals. These week-sized goals are much easier to achieve.

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My resume will show I fulfill all the requirements for the job. I am eager to discuss working opportunities with you. I can be reached at [siddhero97@gmail.com](mailto:siddhero97@gmail.com).

Sincerely,

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Siddhartha Gupta

Enclosure-- Resume

## SIDDHARTHA GUPTA

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304 Meridian, Thane West, Mumbai, India,  
200223 | siddhero97@gmail.com | 236 334 3290  
<https://www.linkedin.com/in/siddhero97/>

## OBJECTIVE

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- Getting a Job for Software Engineering at MasterCard
- Learning how to develop CRM systems in Financial Technology.
- Integrating the Sales Funnel and Marketing strategies into UX experience.

## SKILLS & ABILITIES

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Programming In; Python, Typescript, JavaScript, Java, SQL, CSS  
Frameworks: React, Redux, D3  
Testing Framework: JUnit (Unit Testing), Chai (BDD)  
Project Management Methodologies: Agile, Waterfall, Extreme Programming

## PROJECTS/EXPERIENCE

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Jan 2020 -Apr 2020 Database Manager: In-house Recruitment, CS319 Capstone: Associated Engineering

- My team and I had to develop an in-house job searching application for Associated Engineering.
- The **backend** was C#. The **frontend** was React. The **database** was SQL.
- My job was to be a database manager; making tables and populating tables. I used **SQL** for creation of tables. The most proper technology for populating SQL tables is PLSQL. However, I did not have enough time, within the spirit, therefore I used **Python's** CSVReader to dynamically create SQL insert statements.

Jan 2020-Apr 2020 Symbol Map: Terrorist Project, CS436V: Data Visualization

We made 3 different views for a terrorism dataset. My job was to create a Symbol Map aggregating by country and frequency.

The stack was; JavaScript and D3

One issue that we had appropriating the Countries from the Dataset to D3's Json. For which, I used a Python program to discover mismatches, and hardcoded the mismatches.

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## EDUCATION

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2015-2020 Bachelor of Science: Major in Computer Science:

## COMMUNICATION

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Received 98.9% for a presentation on Linguistics. Planning on Joining Toastmasters.



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August 20, 2020

Reid Holmes

Associate Professor

CS 310 UBC

Dear Mr. Holmes,

I am writing to ask whether it would be possible for you to provide a reference for me.

I was a student in your 2019-2020 Winter1 CS310 Session. My student id is 35169151. My ugrad id is w7h0b. I was in the evening lecture. I earned high scores (> 90%) for the deliverables. I interacted heavily with the TAs for the course and attended most of the Labs, even if they were not my own labs.

I am currently in the process of seeking employment as a Software Engineer at MasterCard. I am interested in understanding how technology can help innovate Customer Relationship Management systems. I am also interested in the overlap between sales, marketing and technology. I would appreciate a positive reference from you. This will enhance my prospects of achieving my career goals. I need to have my references ready by September 30th.

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Jonathan Schroeder

Assistant Professor

CS210, UBC

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