# Marvin M. Charles

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## EXPERIENCE

- **Goldman Sachs** New York, NY
  *Software Engineer* *Jul 2011 - Present*

  - **GS Accelerate - Project Louisa** - VP/Lead
    - Leading engineering team to build Project Louisa, an expertise search engine as part of the first cohort of funded projects in GS Accelerate - the firm's startup incubator.
    - Drafted technical architecture, selected tech stack, and formalized the software development process.
    - Developed engineering roadmap in collaboration with Bengaluru engineering team for deploying on AWS.
    - Recruited new joiners to GS Accelerate as well as broader firm engineering and product roles.
  - **Franchise Analytics, Strategy & Technology (FAST)** - VP/Lead
    - Streamlined micro sales and trading workflow by creating a chatbot leveraging Symphony and internal NLP APIs to expedite trade ticket entry.
    - Built real-time dashboard for Municipal Bond sales and trading desks allowing sales and traders to quickly react to intraday market events.
    - Evaluated options for replacing SecDB/Slang based reporting and analytics pipelines and built proof-of-concept leveraging both Spark and Dask.
    - Guided peers and junior developers through design and code reviews to enhance their technical skills.
  - **Marcus by Goldman Sachs** - VP/Lead
    - Implemented OAuth based consumer facing authentication and inter-service authentication & authorization.
    - Developed strategies for scaling services to meet prescribed SLAs across several mission critical services.
    - Abstracted and standardized several cross-cutting concerns reducing code duplication across the stack.
    - Managed vendor engagements, negotiated SOWs, and conducted contingent worker appraisals.
    - Served as divisional Software Development Life Cycle Champion and Application Security Champion as well as mentored junior team members.
  - **Global Credit Technology** - Associate
    - Designed and implemented award winning real-time market share dashboard for corporate bonds.
    - Built proof-of-concept for reusable product search widget backed by elastic search to demonstrate the ease of development and flexibility of HTML & Javascript.
    - Proposed architecture and built proof-of-concept for In-Memory Data Grid backed data layer currently used by division wide applications.
  - **Bank Loans Servicing Technology** - Analyst
    - Implemented application entitlement framework for bank loan servicing application.
    - Designed and implemented a dashboard for tracking external agent metrics.

## EDUCATION

- **Polytechnic Institute of NYU** Brooklyn, NY
  ***Master of Science*** *in Computer Science* *May 2011*

- **Brooklyn College of the City University of New York** Brooklyn, NY
  ***Bachelor of Science*** *in Computer and Information Science* *May 2008*

## SKILLS

- **Languages** - Java, Kotlin, Javascript, Typescript, SQL, Slang, C#, Python, Go

- **Technologies** - Spring, Vertx, Ktor, JEE, SecDB, React, Angular, Node.js, Kafka, PostgreSQL, MongoDB, AWS