

Michael Francis

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Experience

- IBM, Lead Software Engineer** New York, NY
Apr 2024 – present
- Collaborate with teams across IBM to develop a new ordering experience for customers built off of SAP Commerce Cloud.
- IBM, Lead Software Engineer** New York, NY
Feb 2022 – Apr 2024
- Collaborated with business partners, stakeholders and other teams across IBM to drive implementations of high-revenue ordering, reporting, software downloading and account management features in an enterprise portal used by hundreds of thousands of customers, sellers and distributors alike.
 - Spearheaded initiatives to sunset legacy applications to reduce the team's technical footprint and migrate others to a more modern tech stack, championing cloud-native technology and CI/CD designed to adhere to strong DevSecOps principles and improve the developer experience.
- IBM, Software Engineer** New York, NY
Oct 2020 – Feb 2022
- Lead architect on a common, high-level payment gateway infrastructure, supporting services such as card authorization, wallet management and payment link generation.
 - As part of the Digital Commerce squad, developed and maintained several full stack e-commerce applications.
 - Created touchless checkout experiences for customers and design enhancements centered around increasing revenue.
- Northrop Grumman, Software Engineer** Buffalo, NY
Sept 2019 – Oct 2020
- Developed a set of features that support 3D transmit antenna pattern data in software and hardware.
 - Built a GPU-accelerated sample-processing pipeline that works with external IF and IQ data.
- Energy Wall, Software Engineer** Lancaster, PA
May 2017 – Aug 2019
- Developed a web application for configuring ventilation units and simulating their performances.
 - Wrote embedded software that enables an HVAC controller to be controlled remotely through BACnet.

Skills

- Languages:** TypeScript/Node.js, Python, Java, C, C++, PHP, Ruby, SQL, HTML5/CSS/JavaScript.
- Software Libraries/Frameworks:** Express, Koa, Flask, JSP/JSTL/Servlets, JDBC, Spring Boot, Hibernate, Rails, Bootstrap, Carbon, Angular, React, Next.js, Vue.js, jQuery, OpenGL, OpenCL, OpenCV, CUDA, Thrust, SDL, JUnit, PowerMock, Jest, Nock, Pytest.
- CI/CD:** Travis CI, Jenkins, GitHub Actions, Docker, Kubernetes, OpenShift, IBM Cloud, AWS, Azure, SonarQube, Mend, Detect Secrets, Tekton.
- Databases/Storage:** MongoDB, Redis, S3, MariaDB/MySQL, Cloudant, DB2.

Education

- MS Rochester Institute of Technology, Computer Science** Rochester, NY
Aug 2017 – May 2019
GPA: 3.73, Specialization in Computer Graphics + Visualization
- BS Stony Brook University, Computer Science** Stony Brook, NY
Aug 2013 – May 2017