

# Jean-Paul (JP) Mugizi

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**Address:** Atlanta, GA • **Email address:** mugizico@gmail.com • **Web:** mugizi.com •  
**LinkedIn:** linkedin.com/in/mugizico

## Work experience

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02/2022 – 02/2023  
Atlanta, Georgia

### **Senior Software Engineer | Tech Lead - Risk & Growth Data Platform Chipper Cash Inc.**

- Led the Data Platform team in long-term initiatives to grow and mature data engineering, including leading the effort to migrate cron jobs to Apache Airflow.
- Created and led a cross-functional Data Engineering working group to tackle data quality, reliability, and scale. Introduced on-call, improved monitoring, and alerting.
- Introduced Infrastructure as code / CI-CD for data infrastructure. Enabled significantly reduced costs for data warehouse compute.
- Worked with a variety of cross-functional teams on analytics initiatives to enable data-informed decision making as well as engineering wide efforts to increase collaboration and knowledge sharing.

06/2019 – 12/2021  
Brooklyn, New York

### **Senior Software Engineer - Data Services Intuit Mailchimp**

- Led technical strategy, architecture, and build out to migrate a workflow orchestration platform to a fully-managed service.
- Mentored junior and mid-level engineers on data engineering, cloud computing, and engineering tooling.
- Implemented end-to-end a streaming data pipelines to process 30,000+ logs/sec from the data center into GCP BigQuery and enable long-term business intelligence analysis by the Mailchimp analyst community.
- Collaborated with the database engineering and SRE teams to enable data-driven infra capacity planning using a high-volume(100k/min) data pipeline.

10/2018 – 06/2019  
New York City, New York

### **Sr. Associate Software Engineer Capital One**

- Created a new 40+ engineering organization's engineering practices and developer technical on boarding.
- Optimized a high throughput AWS EMR ETL job to run in 60% less time while connecting to an unreliable API and processing data from 120,000+ API calls. Also implemented business logic and UI using React/ Javascript.

09/2016 – 10/2018  
New York City, New York

### **Software Engineer 18F.gov / US GSA**

- Refactored terabyte-scale data processing pipeline from batch to stream processing and implemented data querying and visualization tools using SQL and AWS QuickSight to enable engineering data-driven decision making.
- Scaled *login.gov* platform to 8 million users as part of a ~5 members Site Reliability Engineering team.
- Served as Engineering Diversity Lead to collaborate with the leadership team in establishing inclusive and welcoming team practices.

11/2014 – 08/2016  
Seattle, Washington

### **Software Developer The Boeing Company**

- Implemented configuration management using Ruby and Chef, for a Boeing platform as a service hosting 400+ applications used by airline customers and internal teams.
- IT Computing Architect co-op Intern at the Office of the Chief Engineer September 2013 to August 2014

## Education

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08/2010 – 12/2014  
Oxford, Ohio

### **B.Sc in Software Engineering** **Miami University**

- **Certificate in Leadership:** Lockheed Martin Leadership Institute
- **Professional Institute for Management Education (PRIME)** at Farmer School of Business

## Technical Skills

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### – PROGRAMMING LANGUAGES

Python, Java , TypeScript , SQL, Bash, HCL

### – WEB FRAMEWORKS AND TOOLS

Flask, REST/JSON, Node.js, Protobuf , GraphQL

### – BIG DATA

Snowflake, BigQuery, Apache Airflow/Beam/Kafka,  
Dask , PySpark

### – AWS

S3 , EC2/ECS/EKS, VPC , MWSAA , RDS Aurora

### – GOOGLE CLOUD PLATFORM

GCS, BigQuery , Composer , Dataflow , GKE , Run

### – INFRASTRUCTURE AND TOOLING

Terraform , Github Actions , Kubernetes , Docker ,  
Prometheus , Grafana, Datadog

## Additional Experiences and Awards

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- **LaunchPad Data Analytics - Clayton State University(Fall 2019-Fall 2021).** Co-lead instructor and curriculum creator for a data analytics & ethics class to rising college seniors.
- **18 of Last 9 Alumni Award Nominee 2017, 2018:** Miami University of Ohio.
- **Computer Science Instructor - Rainier Scholars (2015 – 2017):** Taught game development and computer science class to 8th graders.
- **Refcode.org curriculum creator and career mentor** to introduce refugees and asylum seekers to coding and technology.