

Matthew J. Mangione

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<https://mjmangione.github.io/>

EDUCATION

B.S. in Applied & Computational Mathematical Sciences

Minor in Art History

University of Washington, Seattle WA

September 2017 - June 2021

GPA of 3.78

SKILLS & INTERESTS

Data Analysis / Scientific Computing

SQL, Python, MATLAB

- Practical experience using SQL to develop ETLs and manage databases.
- Up-to-date understanding of modern data frameworks and concepts.
- Excellent experience with interpreting, modeling and predicting data computationally.

Software Development

Java, C/C++, Development tools

- Experience with Windows & Linux, virtualization, and parallel processing.
- Advanced knowledge of algorithms and their efficient implementation using data structures.

Discrete Math

Graph Theory, Linear Algebra, Optimization

- In-depth study of graph theory, combinatorics, and similar constructs related to algorithmic design.
- Advanced knowledge of major mathematical concepts and methods relating to data computation, including linear programming, linear algebra, statistics and machine learning.

WORK EXPERIENCE

Junior Performance Engineer

March 2022 - March 2024

Moviri

Previously employed as a Performance Engineer, implementing technologies and processes for the optimization of IT systems. This is accomplished through designing data architectures and ETLs to monitor performance. This role incorporates skills such as SQL development, Linux system administration, Java programming, and project management.

- Capacity Management
- ETL Development (Java)
- SQL (MySQL, Oracle)
- Linux
- Client-facing, Project Management

Technology Support

Jan 2020 - Present

University of Washington Libraries

Previously employed by the Information Technology Services & Digital Strategies department.

Responsible for network administration of staff computers, as well as assisting with technological issues and support.

- Windows troubleshooting
- Network administration
- Powershell scripting

Summer Intern

June 2019 - Sept 2019

MITRE Corp.

Managed a solo project involving the simulation and analysis of radio communication over geographic data. Programmed in MATLAB, this project included heavy use of scientific computation as well as graph theory to analyze the simulated networks.

- MATLAB
- Linux, Virtualization
- Parallel Processing, Capacity Management
- Geodata, Graph Theory