

# Michael Thompson

Software engineer with experience working on large applications in a team-based development environment. Looking for an opportunity to leverage my coding skills and financial background to build impactful software at a leading financial company.

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## TECHNICAL SKILLS

**LANGUAGES** | Python; JavaScript; HTML/CSS

**FRAMEWORKS/LIBRARIES** | Express.js; Mongoose; Flask

**DATABASES** | MongoDB, PostgreSQL

## SOFTWARE ENGINEERING EXPERIENCE

### SOFTWARE ENGINEERING FELLOW

GENERAL ASSEMBLY

MAR 2022- MAY 2022 • REMOTE

- Learned fundamentals of full-stack development and computer science, as well as software engineering best practices.
- Built web applications using common design patterns such as model-view-controller. Sample projects:
  - Mancala** – A browser-based rendition of the popular strategy game. This app runs entirely in the browser using JavaScript and HTML/CSS. Deployment was accomplished using GitHub Pages (mthompson11.github.io/mancala/).
  - Impact Invest** – A full-stack crowdfunding app for projects with a positive impact on the world. Impact Invest has full CRUD operations and OAuth. The backend is Node.js with RESTful routing via Express.js. The frontend is EJS templates. Deployment was accomplished using Heroku (impact-invest.herokuapp.com/).

### INVESTMENT ENGINEER

MORGAN STANLEY - PARAMETRIC

SEP 2019- FEB 2022 • SEATTLE, WA

- Developed the backend of a web app that brought significant automation to a high-volume analysis type that required a team of almost 10 people to produce. The app was written in Python and employed Flask as the web framework. It also utilized several internal APIs and databases.
- Added functionality to my team's Python package including reusable functions and classes that acted as the backbone for multiple apps supporting risk monitoring and portfolio analysis.
- Implemented a deployment pipeline using Docker, TeamCity, and Octopus Deploy, allowing my team to deploy web apps to on-premises servers.

### PORTFOLIO MANAGER

MORGAN STANLEY - PARAMETRIC

MAR 2017 – SEP 2019 • SEATTLE, WA

- Developed functionality within a Python app that supported my portfolio management team, allowing us to manage more accounts with higher efficiency.
- Tested solver enhancements to ensure that client portfolios were optimized as intended.
- Took ownership of all capital market data and restriction data used by portfolio management teams across the entire firm.

## EDUCATION

### B.A. – BUSINESS ADMINISTRATION FINANCE

WESTERN WASHINGTON UNIVERSITY, 2011

### CERTIFICATE - COMPUTATIONAL FINANCE & RISK MANAGEMENT

UNIVERSITY OF WASHINGTON, 2021

### SOFTWARE ENGINEERING IMMERSIVE

GENERAL ASSEMBLY, 2022