

# MATT MAWSON

## SOFTWARE ENGINEER

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Philadelphia, PA | [matt-mawson.netlify.app](https://matt-mawson.netlify.app) | [github.com/mawsonm](https://github.com/mawsonm)

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Software Engineer with a focus on delivering impactful results and a passion for crafting intuitive user experiences. I am a well-organized, meticulous problem solver with 3.5 years of experience in front-end and back-end development, and a broad range of investment and financial acumen.

### SKILLS

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Java	TypeScript	ReactJS	CSS	Python	SQL
Spring	AWS	Angular	Git	GraphQL	NextJS

### PROFESSIONAL EXPERIENCE

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<b>Application Engineer II, Vanguard</b>	<b>Dec 2023 - Present</b>
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- Leading the order generation team with the adoption of React and Next JS.
- Designing and building a complex AWS system for swap order generation.
- Improved the performance of Single Portfolio Optimization by 50% through designing a cost-effective and fault-tolerant system in AWS.
- Created a maintenance page that permits Run Org and developers to find and remediate issues in the portfolio management tool 75% faster.

<b>Application Engineer I, Vanguard</b>	<b>Jul 2022 - Nov 2023</b>
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- Developed a variety of order generation workflows related to equity and derivatives, enabling portfolio managers to trade billions of dollars on a weekly basis.
- Utilized AWS Appsync, Lambda, S3, ECS, and SQS to implement cost-effective, scalable systems.
- Wrote hundreds of Jest unit tests in TypeScript, guaranteeing a code coverage rate of 90%.

<b>Associate Sr. App Developer, Union Pacific</b>	<b>May 2022 - Jun 2022</b>
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- Implemented and maintained an admin user interface for publishing and viewing hydration jobs as well as viewing and updating equipment summary caches.
- Created a customer-facing user-interface that allowed users to create and automate equipment reports, utilizing various Angular Material components, Angular forms, and AG-Grid. Users could select display fields, sorting fields, grouping fields, filter fields, and scheduling criteria. They could also edit, copy, run, disable / enable, and delete reports.

<b>Junior Application Developer, Union Pacific</b>	<b>Jun 2021 - Apr 2022</b>
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- Developed user interfaces with Angular and AG-Grid to aid in root cause analysis, enabling Customer Care & Support to resolve Shipment Management Application issues more than 50% faster.
- Performed back-end maintenance and altered microservices with Spring Boot to obtain data from new data stores, reducing UI inaccuracies by 20%

### EDUCATION

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<b>University of Michigan College of Engineering</b>	<b>Sep 2017 - May 2021</b>
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Bachelor of Science in Industrial & Operations Engineering

- Minor in Computer Science
- Graduated Cum Laude