

# JORDAN DUBRICK

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## SKILLS

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**Languages:** Python, JavaScript, TypeScript, HTML, C, Java, SQL, VBA

**Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, CSS, Bootstrap, Tailwind CSS, Flask, SpringBoot

**Technologies:** Docker, Jenkins, Git

**Databases:** MySQL, SQLite, PostgreSQL, MongoDB

## WORK EXPERIENCE

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### Software Engineer Intern

05/2022 - 08/2022

*Broadridge Financial Solutions*

*Toronto, ON*

- Designed and developed a web application using React, Node.js, Express.js and MySQL that is used by 50+ individuals throughout development teams.
- Architected cloud infrastructure by developing 5+ Terraform modules and deployed infrastructure to AWS to host the new internal web application.
- Constructed CI/CD pipelines using Jenkins to facilitate the deployment of the new application's Docker container to an ECS Cluster utilizing AWS Fargate technology.
- Developed a REST API consisting of 10+ endpoints using Express.js to facilitate communication between the React frontend and MySQL database that was deployed to Amazon RDS.
- Developed a Chef cookbook that configures EC2 instances with Git, Jenkins, and Docker for the DevOps team.
- Employed the use of TypeScript to ensure type safety and reduce application runtime errors.

### Software Engineer Intern

05/2021 - 08/2021

*Broadridge Financial Solutions*

*Toronto, ON*

- Designed and developed a web application utilizing Next.js, React with JavaScript, Java Springboot and SQLite that supports 20+ users from the release management team.
- Designed and constructed 10+ REST API endpoints using Java Springboot to facilitate data transfer and authentication services for the React frontend and SQLite database.
- Implemented authentication services on the backend to support employee logins using LDAP.
- Application facilitates the organization and planning for all major software releases throughout a calendar year.
- New application compacts all required data into one location, reducing the number of services that members of the release management team need to search for data down to 1.

## PROJECTS

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### Modern Bank Application | *Next.js, React.js, JavaScript, Tailwind CSS* | <https://bank-application-five.vercel.app/>

- Single page web application created with Next.js using JavaScript that was designed around a conceptual bank to allow myself to become familiar and practice with Next.js.
- Application was styled with Tailwind CSS and deployed using Vercel.

### Stock Information Tool | *Next.js, React, Express.js, JavaScript, CSS/HTML*

- Next.js application that allows a user to enter ticker symbols and obtain historic stock information such as the open price, close price, and volume in an interactive table with a .csv export component.
- Express.js API consisting of 5+ endpoints supports the frontend by supplying formatted data from an external API provided by TwelveData.
- Application is containerized and ran with Docker.

### Portfolio Optimization | *Python, Pandas, NumPy, PyPortfolioOpt*

- Optimizes a portfolio in order to obtain the highest Sharpe ratio within a given volatility range that is set by the user.
- Displays the results of the optimized portfolio versus an equally-weighted portfolio consisting of the same securities.
- PyPortfolioOpt library was implemented for the efficient frontier algorithm and Pandas dataframes were used for data storage and manipulation.

## EDUCATION

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### Wilfrid Laurier University

*Honours Bachelor of Science in Computer Science*

**Waterloo, ON**

*GPA: 3.9/4.0 | 06/2023*