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## TECHNICAL SKILLS

### Full-Stack, UI / UX, Web Development

JavaScript (ES6+)	NoSQL (MongoDB)	TypeScript	Redux	CSS/Sass
React	SQL (PostgreSQL)	D3.js	Next.js	Tailwind CSS
Version Control (Git, Github)	Node.js	RESTful API	Figma	Material UI

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## EXPERIENCE

### Software Engineer, D3no Data | Data visualization & charting library 2022 - 2023

- Developed the first data visualization library for Deno, enabling engineers to create interactive graphs with ease. Implemented real-time graphics rendering, support for multiple data sets, customizable chart and UI properties, and smooth animation capabilities.
- Decreased performance costs by 54% (from 105kB to 68kB) by evaluating alternative front-end libraries, constructing a system using Preact - a React-alternative lightweight front-end library, and optimizing application performance.
- Managed project version control for a team of 5 engineers, establishing a stable Git branching model, promoting informative commit histories, securing merge privileges, and implementing a collaborative code review process.
- Minimized dynamic typing errors during development by incorporating TypeScript to enforce strict type contracts for chart component properties.
- Designed and developed a web application using TypeScript and Deno, providing comprehensive documentation, a production-level testing environment, and real-time demonstrations of all chart types and customizations available in the library ([d3nodata.deno.dev](https://d3nodata.deno.dev)).
- Enhanced website performance and scalability by adhering to a strict data architecture as required by the Fresh framework.
- Product developed under the tech accelerator OS Labs ([opensource.labs.io](https://opensource.labs.io)).

### Analyst, Nomura Corporate Research & Asset Management 2019 - 2022

- Improved trading flow for 80+ client accounts by developing over 15 multi-functional VBA applications to monitor and analyze \$80 million in daily trading volume data and manage a portfolio of \$30 billion.
- Streamlined data analysis processes by utilizing Bloomberg BQL functions to extract trade information from large data sets.
- Boosted trading efficiency and accuracy through the development of several data analysis tools, including:
  - Trade booking tool that scraped and organized trade information from various spreadsheets, saving 15 minutes per day.
  - Failed trade report tool that analyzed and documented trade failures and potential failures, saving 1 hour per day.

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## TECHNICAL PROJECTS

### Full-Stack Engineer, Vault | Personal finance visualization tool

- Designed and implemented a Node.js server and Express framework to handle requests through a RESTful API design, incorporating middleware and controllers to authenticate users, manage sessions, and read/write data to and from a SQL database.
- Utilized React Hooks to create a centralized state tree, promoting efficient data flow and eliminating complex prop drilling across nested components and excessive re-rendering.
- Created UI/UX prototypes with Figma, and integrated Material UI and Framer Motion to simplify frontend development.
- Incorporated PassportJS middleware to provide user login and registration options, as well as cookie sessions, to persist user data.

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## EDUCATION

Muhlenberg College | B.A. Finance & Economics | 2019

## LANGUAGES

Latvian

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## PRESENTATIONS

"An Intro to Deno" | Single Sprout Speaker Series | NYC | 2022