

# JOHN LAIDLER

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## EDUCATION

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**University of Massachusetts Amherst** Amherst, MA  
*Bachelor of Science in Computer Science, GPA: 3.93* *September 2019 – May 2023*

## EXPERIENCE

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**Software Engineering Intern** May 2022 – August 2022  
*Hypertherm* *Hanover, NH*

- Implemented data retrieval and formatting processes using SQL to extract machine data from the company's Microsoft Azure Data Lake.
- Designed and implemented a Power Automate-based notification system for clients, utilizing tool maintenance dashboards to trigger automated alerts.
- Constructed internal visualization tools by harnessing CNC machine data to optimize decisions related to the XPR cutting system.

**Catering and Banquet Server** May 2021 – August 2021  
*The Cape Club of Sharon* *Sharon, MA*

- Facilitated and problem-solved at a number of formal events, including weddings and golf tournaments, ensuring the seamless experience of hundreds of guests while satisfying the demands of coworkers and clients.

**After-school Care Staff Member** February 2019 – June 2019  
*East Elementary School* *Sharon, MA*

- Oversaw after-school activities for 40+ elementary school children, collaborating with a team of personnel to ease student conflicts and orchestrate educational activities.

## PROJECTS

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**Fitness-wear E-Commerce Platform** | *MongoDB, Express, React, Node.js* [github.com/johnlaidler267/StudLift](https://github.com/johnlaidler267/StudLift)

- Designed and implemented a robust e-commerce platform from scratch, utilizing MongoDB to efficiently store and manage customer information and product data.
- Contains all major features: user data management, cart and checkout services, order history and wishlists, product search functionality, and more.
- Implemented a secure authentication system using Firebase, safeguarding user accounts, and ensuring secure data transfer.

**DebateMe** | *React, React Bootstrap, Express, Axios, PostgreSQL, Docker* [github.com/johnlaidler267/DebateMe](https://github.com/johnlaidler267/DebateMe)

- Designed and developed a full-stack web application that serves as an online platform for moderated debates.
- Ensured robust security by developing a backend system utilizing PostgreSQL for efficient data storage.
- Implemented a RESTful API using Express, and CRUD operations with Axios.

**Connect4 Determinator** | *Python*

- Generated a bot which relies on a custom heuristic utility determination to return an optimal move given a Connect4 game state.
- Utilized a Minimax algorithm with lookahead limit and optimized it using alpha-beta pruning to greatly reduce search time.

## TECHNICAL SKILLS

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**Languages:** JavaScript, Typescript, Java, Python, HTML/CSS, SQL

**Frameworks:** Express.js, React

**Developer Tools:** Git, Docker, MongoDB, PostgreSQL, Postman, Chrome DevTools, Selenium, Wireshark

**Libraries:** Pandas, Tkinter (for python GUIs), Matplotlib, React Bootstrap, Axios