

21308 Arrowhead CT,  
Ashburn VA 20147  
Phone: 571-328-8373

# Josh Spangler

joshman.spangler@gmail.com  
LinkedIn: joshspangler1499  
GitHub: jspangl3r

## Education

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**Rochester, NY**                      **Rochester Institute of Technology**                      **Aug 2017 – Dec 2021**

- Bachelor of Science in Computer Science                      *GPA: 3.78, magna cum laude*
- Minor in Mathematics
- Relevant Coursework: Data Structures, Analysis of Algorithms, Computer Science Theory, Principles of Data Management, Software Engineering, Parallel & Distributed Systems, Artificial Intelligence, Cryptography, Data Mining, Operating Systems

## Experience

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**Full Stack Software Engineer**                      **NS2 Mission**                      **Jan 2022 – Present**

- Led development of an overhauled analytics dashboard and supporting REST API with 80% more metrics and dashboard creation/sharing features
- Led development of an overhauled page routing system to allow for more extensive bookmarking and page state persistence in the webapps
- Led development of a page for viewing and linking between Apache Kafka topics, including message publishing support
- Optimized various metrics and permissions endpoints by upwards of 25% to alleviate slow response times

**Software Engineer Intern**                      **NS2 Mission**                      **May 2020 – Aug 2021**

- Led development of various searching features for complex list filtering that enhanced the user search experience
  - Customizable search filters based on various attributes and search operators
  - Ability to persist user-created filters in the browser session
- Led development of a shared library for viewing and managing user, role, and resource permissions
- Created and maintained a front end unit testing suite using the Jest framework

## Projects

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**Discord Bot**                      **2019 – Present**

<https://github.com/jspangl3r/LadBot>

- Actively maintained a Discord bot written in TypeScript/JavaScript, Node.js, and Python
- Developed various commands such as user/server information, message quoting, and trivia game support
- Used OpenAI's GPT-2 to create AI models that generate text to mimic users based on chat history

**Automobile Database**                      **Spring 2019**

<https://github.com/jspangl3r/CSCI-320-Project>

- Developed H2 engine database for managing dealers, inventory, and sales for a fictitious car company
- Developed UI app: dealer sign in, order from manufacturer, and an administrator SQL interface

## Skills

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- Languages: TypeScript/JavaScript, HTML, CSS, Java, SQL, Python, GraphQL, Bash/PowerShell, C, C#, Assembly (MIPS), Haskell
- Frameworks & Libraries: Vue.js, Java Spring Boot, React, React Redux, Apache Kafka, Jest
- Tools: Git, Unix, PostgreSQL, npm, Swagger, AWS, Gradle, Maven, GitHub, Atlassian suite
- Protocols: HTTP, TCP, UDP, OAuth 2.0