

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

# Josh Spangler

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

## Experience

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

- Developed microservices using Vue, TypeScript, Java, mySQL, and AWS in an agile environment
- Led development of an overhauled analytics dashboard with 80% more metrics, additional user customizations and sharing features
- Contributed to and maintained two main web applications and their supporting RESTful APIs
- Helped optimize 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
  - Server-side searching features
- 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

## 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

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