

# NEAL SHAH

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## EDUCATION

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University of Massachusetts Amherst/ Graduated June 2023

- Computer Science Major
- GPA: 3.923
- Notable Courses: Machine Learning, Software Engineering, Programming with Data Structures, Introduction to Algorithms, Computer Systems Principles, Programming Methodology, Intro to the C Language, Introduction to Computation, Artificial Intelligence, Applications of Data Management, Calculus II, Reasoning Under Uncertainty

## SKILLS

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- **Technical Skills:** Full-Stack Web Dev. (React.js, TypeScript, Node.js, PostgreSQL), Data Viz. (Python), Multi-Cloud (Go, Kubernetes, Docker, Java)
- **Soft Skills:** Leadership (prev. Class President, Eagle Scout, Dance Team Captain, Founding an App), Presentation

## EXPERIENCE

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(Current) Dell Technologies

- Full-Time Software Engineer – July 2023 – Present – 1.5 years
- Incubation Team
  - Contributed to an Early Action and Incubation team (Agile environment) for Proof of Concepts focusing on multi-cloud strategies on containerization
  - **Collaboratively developed and presented 3 PoC's for microservices in Go to 50+ stakeholders** of Kubernetes Operators on Dell storage compute. (Docker, Java, Fabric8)
- AIOps Team
  - Creating a tool to detect workload shifts in raw trace (IO) data from storage systems and explain metrics to user (read/write mix was highest during this workload, this phase was idle, etc.)
  - Visualizing these workload shifts using **PySpark, Polars and Matplotlib**.
  - Collaboratively implemented AIOps tools in the DataPath (C++) for one of Dell's storage products so statistics and analysis can happen real time.

DebateArena | Co-Founder: [www.debatearena.app](http://www.debatearena.app) | [instagram.com/debatearena.app](https://instagram.com/debatearena.app) | [github.com/nealshuh/debatearena-public](https://github.com/nealshuh/debatearena-public)

- Led development of a full-stack debate platform enabling real-time discussions between users and GenAI models, growing to **1,000 weekly active users (React.js, TypeScript, Node.js)**
- Co-led viral marketing initiatives on Instagram, achieving **millions of weekly views**
- Architected and implemented comprehensive technical solutions including:
  - **Prompt engineering and LLM integration** for AI debate opponents
  - **Real-time concurrent debate system** and multiple game modes (British Parliamentary, Cross-Examination)
  - Full-stack development using **React, Supabase, and Deno**
  - User management systems and debate archival features
- Stripe payment integration
- Currently expanding platform reach through mobile development initiatives on **React Native**

Yale University's IT Department

- Full-Time Intern - Jun – Aug 2021 - 3 Months
- Fixed four bugs related to performance, functionality, and accessibility of multiple web applications on the front-end and back-end and other miscellaneous activities (used Java, JavaScript, SQL and Microsoft Excel)

## PERSONAL PROJECTS

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Virtual Farmer's Market: [github.com/ssompally/FarmFresh](https://github.com/ssompally/FarmFresh)

- As a part of my software engineering class, I worked with 8 other students on building an online marketplace web application that allows local farmers in Amherst, Massachusetts to post their produce for sale and interested consumers to

buy products from specific farmers. The project will span the entire semester and has to be delivered in phases with presentation.

**Cloud Platform:** GCP (Google Cloud), **Frontend:** React.js, **Backend:** Node.js, Express.js, **Database:** PostgreSQL.

**Spotify Muralify:** [github.com/nealshuh/muralify](https://github.com/nealshuh/muralify)

- Created a website that will make a personalized “mural” or collage of a Spotify user’s top artists and albums on Spotify when provided authorization by the Spotify user. The authorization is the Client Authorization Flow from OAuth 2.0. This application has already implemented Flask (Python), JavaScript, HTML, CSS, Spotify API, OAuth 2.0.

**Frontend:** JavaScript, **Backend:** Flask, **Additional:** OAuth 2.0.

**LinkedIn Automated Job Applier:** [github.com/nealshuh/powersearch](https://github.com/nealshuh/powersearch)

- Developed a **Spring Boot** application that automates job applications on LinkedIn using **Selenium WebDriver**. Implemented intelligent form filling using OpenAI's GPT-4 API for customized responses. Containerized the application using **Docker** for easy deployment on **AWS EC2**. Built with clean architecture principles and comprehensive error handling.