

# Joshua Gorman

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## EDUCATION

### Stevens Institute of Technology

Bachelor of Science, Computer Science

Hoboken, NJ

Expected May 2024

Cumulative GPA: 3.89/4.0; Dean's List 2021-2023, Pinnacle Scholar, Upsilon Pi Epsilon

**Relevant Coursework:** Data Structures & Algorithms, Web Programming I & II, Computer Architecture and Organization, Operating Systems, Systems Programming, Principles of Programming Languages, Agile Methods for Software Development, Database Management Systems I, TCP/IP Networking, Human-Computer Interaction, Concurrent Programming (IP), Database Management Systems II (IP), Intro to Cloud Computing (IP)

## EXPERIENCE

### Systems Engineering Research Center

Research Assistant (Full-Stack Developer)

Hoboken, NJ

Nov 2023 – Present

- Working on a dashboard project that integrates ChatGPT and LLMs to retrieve datasets based on user queries dynamically.
- Creating a state-managed frontend with React and Zustand and a backend API utilizing Node.js and Express.
- When completed, it will be presented to 20+ individuals for approval which could further secure funding for similar projects.

### Stevens Blueprint

Frontend Developer

Hoboken, NJ

Sep 2023 – Present

- Meet and discuss with local nonprofits in and around Hoboken to help them build software to aid in their diverse causes.
- We are collaborating with NYCMesh on software to manipulate 1000+ antennas providing internet to the NYC area.
- Utilizing Next.js for our full-stack solution, PostgreSQL for the database, and CI/CD tools like Docker and Cypress.

### Stevens Institute of Technology

Research Assistant (Backend Developer)

Hoboken, NJ

May 2023 – Aug 2023

- Researched with NUKEMAP creator to enhance and develop new features for NUKEMAP with 1000s of users monthly.
- Translated all PHP code into Node.js to allow offline hosting for first/third-party research and analysis.
- Reduced the conversion time of NetCDF LandScan files to an SQLite database from roughly 2 days to just 1 hour.

## PROJECTS

### AlgoRacer | *React, JavaScript, Node.js, Express, MongoDB, Heroku*

Full-stack Web Application

- Created a website to gamify learning common computer science algorithms in a team of 2, working mainly on the front end.
- Contributed to the frontend structure and game elements extensively using React hooks for game interactivity.
- Facilitated iteration tests to gauge our engagement metrics to which we saw a 10% increase in engagement over 4 iterations.

### Scrumptious Solar Services | *React, JavaScript, Node.js, Socket.io, Firebase*

Full-stack Web Application

- Designed a web app with 6 others to help solar panel companies correspond with external customers and give them an outlet to interact with the internal company, all in one place.
- Worked with a client to deliver features through the Scrum process in 2-week sprints, creating a demo after each sprint.
- Hosted a front end on Vercel and a back end on Heroku to conduct user acceptance tests with 18+ unique users.

### Historical Site Trip Planner | *React, JavaScript, Node.js, Mapbox, Firebase, MongoDB*

Full-stack Web Application

- Built a trip planner spanning NY with 40+ sites alongside 4 others that can plan 1 to 3-day trips based on geolocation data.
- Implemented Mapbox to display markers to users, allowing users to review and talk to one another with sockets.
- Designed a submission system where users can upload a location to be verified by admins, disallowing false information.

## SKILLS & EXTRACURRICULARS

**Languages:** Java, Python, JavaScript, HTML, CSS, C, C++, SQL

**Tools:** Git/Github, Figma, Visual Studio Code, Adobe Illustrator/XD, Eclipse

**Technologies:** Node.js, React.js, Tailwind CSS, Express.js, JQuery, Git, Next.js, Redis, Redux, GraphQL, Apollo Server

**Databases:** MongoDB, Firebase, SQLite, PostgreSQL

**Activities:** Software Engineering Club Vice-President, Computer Science Club, Google Student Developer Club, Blueprint