

# Joshua Bernstein

Mahwah, NJ, 07430 | 201-249-3266 | [joshuatbernstein@gmail.com](mailto:joshuatbernstein@gmail.com) | [joshbernsteint.github.io](https://joshbernsteint.github.io) | [LinkedIn](#)

## EDUCATION & LANGUAGES

**Stevens Institute of Technology, Hoboken, NJ**— *Bachelors of Computer Science* (2021 – Spring 2024)  
- 3.9 GPA, Stevens Pinnacle Scholar. Expected graduation date Spring 2024.

- Relevant coursework: Data structures–A, Systems Programming–A, Algorithms–A, Computer Architecture–A

**Stevens Institute of Technology, Hoboken, NJ**— *Masters of Computer Science* (2024 – Spring 2025)  
-Beginning Graduate Program Fall 2024. Graduating with my Bachelors and Masters of Computer Science in 4 years.

### Languages

- Fluent English skills, including speaking, writing, and reading.
- Professional French Skills, including speaking, writing, and reading (Recipient of the [NIDOE Seal of Biliteracy](#) in French)

## SKILLS

- Adept at a variety of different programming languages including:
  - Python, C/C++, Java, ARMv8 Assembly, Javascript, Racket, OCaml, R, C#, Bash
- Highly skilled with Git and managing version control tools.
- Versed in utilizing cloud-based virtual machines via Secure Socket Shell(SSH) Protocol.
- Proficient in manipulating and illustrating data with GIS softwares, including ArcMap and ArcGIS Pro.

## EXPERIENCE

**Student Assistant**— *Stevens Institute of Technology, Hoboken, NJ* (Oct 2023 – Present)

- Designed and programmed an interactive dashboard capable of viewing, editing, and analyzing specific model data.
- Coordinated with other team members to integrate their contributions into the dashboard efficiently.
- Delivered periodic presentations and demonstrations to supervisors and project clients.

**Course Assistant**— *Stevens Institute of Technology, Hoboken, NJ* (Sept 2023 – Present)

- Refined class assignments and homeworks to ensure a lack of typographical and logical errors.
- Streamlined the grading process by assisting in the construction of an interface to automatically grade homeworks.
- Conducted weekly office hours to answer any questions regarding the subject material.

**Research Assistant** – *Stevens Institute of Technology, Hoboken, NJ* (Summer 2022, Summer 2023)

- Spearheaded design and construction of Python scripts to download, analyze, and store over 690,000 image files safely.
- Utilized aforementioned scripts to effectively filter images to curate a sample of 3,600 high-quality image files.
- Implemented scripts to interact with GIS software technologies such as ArcGIS to correlate geographic image metadata with a 2D map of Mercury to visualize physical locations of each image file.
- Coordinated with others in the research group to facilitate efficient and standardized code.

## PROJECTS

**ANGEL** — *Node-based Downloader and Converter Application* (Summer 2023) – [GitHub Repository](#)

- Electron-based Node and React application to download and convert audio and video files.
- Features ability to choose download quality, either through video resolution, audio quality, or frame rate.
- Utilizes ffmpeg for video and audio conversion from any supported container format to another.
- Editable settings including different view modes, custom download preferences, and accessibility options.

**Scrumptious Solar Services**— *Full-stack Web Application* (Spring 2023) – [GitHub Repository](#)

- Directed a 6-person team in the production of a web application to streamline the processes of a solar panel company.
- Integrated several different technologies, including React, Express, Stripe, and Firebase in the end-product.
- Differentiated user functions based on their assigned role in the company.
- Implemented email and private chat features to facilitate communication between employees and customers.

## VOLUNTEER & EXTRACURRICULARS

**Secretary**— *Stevens Computer Science Club* (Fall 2023 – Present)

- Composed weekly newsletter to inform the over 200 club members of important events and opportunities.
- Ensured club meetings had a room reserved with adequate space for all members.
- Guided workshops and presentations on essential computer science topics.

## AWARDS & ACCOLADES

- Stevens Institute of Technology Dean's List– Fall 2021, Spring 2022, Fall 2022, Spring 2023
- Outstanding Project Award in recognition of work done on **Scrumptious Solar Services** – Spring 2023