

Joshua Bernstein

Mahwah, NJ, 07430 | 201-249-3266 | joshuatbernstein@gmail.com | 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

- Experience and expertise in a variety of different programming languages including:

- Python, C/C++, Java, ARMv8 Assembly, Javascript, Racket, OCaml, R, C#, Bash

- Seasoned with Git and utilizing continuous integration tools such as GitHub Actions.

- 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 6 other team members to integrate their contributions into the dashboard efficiently.

- Delivered periodic presentations and demonstrations to over 40 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.

- Taught weekly lab sessions to 35 students to cement their understanding in the curriculum.

- Streamlined the grading process by constructing a script to automatically grade homeworks for 200 students.

- 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 4 colleagues 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.

- Implemented Agile development methodology over 4 two-week sprints, producing a workable demo each sprint.

- Recipient of “Outstanding Project Award” out of 35 total teams by the project client.

VOLUNTEER & EXTRACURRICULARS

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

- Composed weekly newsletter to inform the over 300 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