Joshua Bernstein

Mahwah, NJ, 07430 | 201-249-3266 | joshuatbernstein@gmail.com | joshtb.dev | [LinkedIn](https://linkedin.com)

EDUCATION & LANGUAGES

Stevens Institute of Technology, Hoboken, NJ— *Bachelors of Computer Science* (2021 – Spring 2024)
- 3.96 GPA, Stevens Pinnacle Scholar. Course assistant for Computer Architecture and Systems Programming.
- 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 [NJDOE Seal of Biliteracy](https://example.com) 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 with database management systems and engines such as PostgresQL and MongoDB.

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

CoverAI— *AI-Assisted Cover Letter Generation* (Fall 2023 - Spring 2024) – [GitHub Repository](https://github.com)
- Web application to create a personalized cover letter based on your personal data and a given job posting.
- Personal data comes from either a manual form or from uploading and parsing a resume.
- Previously generated cover letters can be edited and re-downloaded at will.
- Integrated chrome extension to automatically scan job sites for relevant job data to seed letter creation.

AlgoRacer— *Computer Science Algorithm Educational Game* (Fall 2023) – [GitHub Repository](https://github.com)
- Web game to teach fundamental computer science algorithms. Originally, it included basic sorting algorithms.
- Users must compete against an accelerating computer to complete the steps of the algorithm first.
- Contained two game modes with selectable difficulty: Endless (game continues forever) and Race (set limit).
- Leaderboard to compare high scores with other users. This leaderboard can be separated by gamemode or algorithm.

VOLUNTEER & EXTRACURRICULARS

Vice President— *Stevens Computer Science Club* (Fall 2023 – Spring 2024)
- 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** project – Spring 2023