Michael Andrew Socas

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Education

August 2021 – December 2025
Stevens Institute of Technology – Hoboken, NJ
Bachelor's Degree of Science in Computer Science
Relevant courses:

- Transfer Credit: Integral Calculus; Differential Calculus
- Fall 2021: Calculus of Two Variables; Introduction to Computer Science; Series, Vectors, Functions, and Surfaces
- Spring 2022: Discrete Structures; Probability and Statistics
- Fall 2022: Data Structures; Intermediate Statistics
- Spring 2023: Algorithms; Linear Algebra; Software Development Process*
- Summer 2023: Principles of Programming Languages
- Fall 2023: Computer Architecture and Organization; Database Management Systems; Theory of Computation
- Spring 2024: Computer Architecture; Operating Systems; Quantitative Biology; Systems Programming
- Fall 2024: Concurrent Programming; Security, Privacy, and Society; Senior Design I*; Web Programming

Scholarships: Edwin A. Stevens Scholarship; Presidential Scholarship
Cumulative GPA: 3.244
Accolades: Dean's List – Fall 2021; Spring 2023; Spring 2024

* indicates semester-long collaborative software projects

Skills

Programming languages:

- Most comfortable: C; C++; Python
- Others: Assembly (ARM; RISC-V); Bash; Java; JavaScript; Ocaml; R; Rust; Scheme

Other languages: CSS; HTML; SQL
Software: Git; LibreOffice (Calc; Draw; Impress; Writer); Logisim
Evolution; MySQL; VirtualBox; VSCodium
OS: Debian 12 (x86-64)
Language: English

Projects

Game Boy ROMs (all assets and almost all code made by me):
- [Game (Boy) of Life](#) – Conway's Game of Life port
  - language: C
- [Bit Bang](#) – puzzle game
  - language: C

Command line programs:
- [Calculate and print the prime factorization of a natural number (up to $2^{64} - 1$)](#)
  - language: C
- [Calculate and print the 2-adic representation (to 32 digits) and absolute value of a rational number](#)
  - language: C
- [BF language interpreter](#)
  - language: C