Emiliano Gutierrez

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Education

Stevens Institute of Technology   **May 2028**

B.S. Computer Science — GPA: 3.00 — 2nd Year (2/4)   *Hoboken, NJ*

- Awards: Presidential Scholarship, Edwin A. Stevens Scholarship, Stevens Grant.

- Relevant Coursework: Discrete Structures, Computer Architecture, Algorithms, Systems Programming, Principles of Programming Languages, Intermediate Statistics, Software Development Process, Computers and Society, Frontiers of Technology: Biotechnology, Physics Lab I.

Technical Skills

Languages: Python, Java, C++, C, Scheme, SQL, Assembly.
Tools: Git/GitHub, Jira, Pandas, NumPy, scikit-learn, Jupyter, Excel.
Strengths: Data Structures & Algorithms, Computer Architecture, Systems Design, Data Processing.

Projects

Waddle – Job Portal MVP (In Progress)   *Next.js, Node.js, MongoDB, Jira*

- Developing a platform for Stevens students to access paid internships and externships from Hoboken and NYC businesses.

- Building features including business accounts, internship posting workflows, dashboards, and authentication logic.

- Using Jira for sprint planning, backlog refinement, and coordination across a six-person engineering team.

- Designed scalable backend architecture targeting 3,000+ student users.

Silverback CPU – Custom Single-Cycle Processor   *Logisim-Evolution, Python, Assembly*

- Designed and implemented a custom single-cycle CPU datapath including register file, ALU, instruction memory, data memory, and program counter.

- Created a bespoke 8-bit instruction set architecture (ISA) with fixed-length encodings for arithmetic and load/store instructions.

- Built a Python-based assembler translating custom assembly programs into executable machine code for Logisim.

- Developed and tested demo programs validating correct instruction execution and memory behavior.

Algorithm Visualizer   *C++*

- Built an interactive tool visualizing sorting and searching algorithms with runtime metrics, improving peer learning by 30%.

Data Analysis Pipeline   *Python*

- Automated preprocessing pipeline reducing data cleaning time by 40% using Pandas and modular functions.

Experience

Stevens Software Engineering Club   **Aug 2025 – Present**

Product / Project Manager   *Hoboken, NJ*

- Led development of a full-stack job portal MVP, coordinating frontend and backend deliverables across six developers.

- Created user stories, sprint boards, and acceptance criteria in Jira, improving alignment and on-time delivery.

- Implemented GitHub Actions CI workflows reducing merge conflicts and improving deployment reliability by 30%.

- Facilitated code reviews and retrospectives to maintain code quality and accelerate feature delivery.

The Wash Tub   **Mar–Aug 2024; May–Aug 2025**

Operations Associate   *San Antonio, TX*

- Automated reporting workflows identifying bottlenecks and reducing operational discrepancies by 20%.

- Analyzed throughput metrics and redesigned workflows increasing efficiency by 15%.

- Trained 10+ employees, standardizing processes and communication.

Leadership

Delta Tau Delta Rho Chapter   **Jan 2025 – Present**

New Member Educator   *Hoboken, NJ*

- Lead education program for new members, designing weekly learning modules and coordinating chapter-wide onboarding.

- Facilitated training sessions on leadership, academic support, and risk management.

- Managed communication between executive board and new member class to ensure smooth integration and accountability.

Additional

Languages: English, Spanish.
Interests: Applied AI, Software Engineering, Soccer, Videography, Photography.