

# Samuel Preston

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## EDUCATION

**M.S. Computer Science w/ concentration in Software Development** May 2025  
*Stevens Institute of Technology*

**B.S. Business and Technology with minors in Computer Science and Information Systems** May 2024  
*Stevens Institute of Technology*

**Relevant coursework:** Advanced Strategy, Business Law, Corporate Finance, Systems Analysis & Design, Project Management, Logistics & Supply Chain Management, Social Media & Network Analysis, Data Analytics, Agile Methodology for Software Development, Web Programming, Database Management I & II, Machine Learning, Natural Language Processing

## EXPERIENCE

**Academic Tutor** September 2022 - May 2025  
*Stevens Institute of Technology* Hoboken, NJ

- Collaborated with students to complete homework assignments, identify lagging skills and correct weaknesses
- Planned lessons for the allotted time to strengthen weak subjects and build skills, making use of custom made handouts and study guides
- Hosted review sessions for groups covering various topics including: Python, SQL, Figma & Lucidchart

**IT Consultant - Intern** June 2024 - August 2024  
*Samsung Data Systems* Ridgefield, NJ

- Created and instructed a 15 module training course on Generative AI Topics ranging from AI Principles to AI Applications for all current and future members of the Strategic Account Management team
- Designed a process map for a client loan origination process to align understandings between the client and the company regarding where Generative AI can be used to increase the processes efficiency
- Analyzed the current system used by IT teams to respond to support emails, creating a 4 stage plan for a Generative AI based system that would result in greater efficiency of support ticket handling and faster response time

**Operations Assistant** May 2023 - August 2023  
*Henry Kaufmann Campgrounds* Pearl River, NY

- Collaborated with a 15-person maintenance team to support daily operations across a 105-acre summer camp facility, ensuring a clean and safe environment for staff and campers
- Took initiative on independent tasks including equipment maintenance, facility upkeep, and minor repairs to streamline camp readiness
- Demonstrated reliability and a strong work ethic in physically demanding, outdoor conditions throughout the summer season

**Operations Analyst - Intern** December 2021 - June 2022  
*Asset Based Lending LLC* Jersey City, NJ

- Analyzed and processed over 150+ documents weekly for risk management via excel and CRM software, enhancing the organization's ability to identify and mitigate potential financial risks
- Facilitated over \$20 million in real-estate loan sales, boosting loan sales volume involving customers across multiple states
- Created a dashboard using Excel that highlighted 20+ loans over \$1 million in value to analyze current levels of efficiency

## NOTABLE PROJECTS

**AI-Enhanced Tutoring Platform** | *Python, Javascript, Flask, OpenAI API* January 2025 - May 2025

- Developed a full-stack middleware system that intercepts and rewrites user-AI dialogue to transform passive question answering into critical thinking prompts, enhancing educational engagement
- Designed and implemented a Python-based backend for modifying both user input and LLM output using prompt engineering techniques and NLP filters
- Designed and conducted user testing with 15+ participants, including pre/post surveys and interaction logging, to assess system impact on student learning and reflection

**Reddit Controversy Classification Project** | *Python, Scikit-learn* January 2025 - May 2025

- Built a text classification pipeline on 10,000+ Reddit posts and 100,000+ comments to identify controversial content using metadata and linguistic features
- Achieved 0.83 F1-score by training and tuning models (Naive Bayes, XGBoost, Logistic Regression) with cross-validation
- Engineered 12+ features including post/comment sentiment scores, word frequency vectors, and comment depth averages to improve classifier performance

**Relational Query Interpreter** | *Python, SQL, Relational Algebra**September 2024 - December 2024*

- Designed and implemented a relational query interpreter capable of parsing and executing SQL-like queries by converting them into relational algebra expressions
- Introduced support for Extended SQL, enabling the execution of multi-variable (MF/EMF) queries by decoupling grouping variables from selection predicates, improving query run time and efficiency
- Built a modular system to handle selection, projection, joins, and aggregation, simulating core DBMS functionality using in-memory data structures

**Senior Design Entrepreneurship: Fleco** | *MERN Stack, Figma, Lucidchart, Github, MS: Office* *September 2023 - May 2024*

- Created an innovative digital college marketplace platform that empowers students to efficiently list, buy, and sell used items within their community in order to encourage conscious consumption and prevent waste
- Adopted a modular design strategy to ensure scalability, positioning the platform for growth as more colleges participate
- Conducted a thorough competitive analysis of 5 leading platforms, extracting and integrating 3 key strategies from their business models to enhance our offering

**FS Digital Consulting: Community Platform** | *MERN Stack, Github, Jira, Figma**September 2023 - December 2023*

- Acted as the Scrum Master for a 7 person team developing a community event discovery platform using MongoDB, Express, React and NodeJS for a full-stack solution
- Met weekly with clients providing updates to ensure the project was meeting the shareholder's needs and expectations
- Developed process maps and entity-relationship diagrams (ERDs) to effectively plan and visualize the project architecture and workflows

**Technical Project Manager: Orgo** | *Figma, Lucidchart, MS: Office**September 2023 - December 2023*

- Oversaw the development of 'Orgo', an innovative platform aimed at enhancing student engagement in clubs, utilizing Agile methodology for effective project management and iterative development
- Directed UI/UX design efforts using Figma and coordinated the creation of detailed entity-relationship and data flow diagrams with Lucidchart to ensure clear communication among team members
- Led comprehensive market research and analysis to identify user needs and gaps in existing solutions, employing polls and user personas to inform the development process and align with user expectations

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**LEADERSHIP EXPERIENCE****Challenge Level Coordinator** | *Stevens Institute of Technology**October 2022 - Present*

- Served as the instructor for a cohort of 30 students, facilitating their transition to college life through guidance and support
- Enhanced members' experiences by providing resources and mentorship in professional development and academic success
- Cultivated a culture of diligence and collaboration, resulting in measurable improvements in members' personal growth

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**SKILLS & INTERESTS**

**Programming Technologies:** HTML5/CSS, Python (Pandas, Numpy, Scikit-Learn), JavaScript (React, Node JS), MongoDB, SQL (MySQL, PostgreSQL)

**Software:** Git/GitHub, VS Code, Lucidchart, Figma, Jira, MS Office, Canva, Power BI, Tableau, AWS

**Interests:** Software Design, Creative Design, Computer Building, Reading, Writing, Soccer

**Extracurriculars:** Club Soccer, Sigma Phi Epsilon

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**AWARDS AND HONORS***Edwin A. Stevens Scholarship**Aug. 2020**Presidential Scholarship**Aug. 2020*