

Samuel Preston

DoB: 01/10/2002 | 845-262-8575 | spreston110@gmail.com | linkedin.com/in/SamuelRMPreston/ | github.com/Samuelp0110

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

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

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

AWARDS AND HONORS

*Edwin A. Stevens Scholarship**Aug. 2020**Presidential Scholarship**Aug. 2020*