Sam Feld

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Education

Quinnipiac University, Hamden, CT — May 2025
Master of Science; Major: Computer Science
Overall GPA: 3.93
Coursework: AI, Web-Development, Software-Development, Data mining, Computer Architecture, Cybersecurity, Algorithmic design, Advanced Computational Problem Solving, Formal Specification Methods, Computer Graphics

Excelsior University, Albany, NY — January 2024
Bachelor of Science; Major: Liberal Arts
Overall GPA: 4.00
Coursework: Persuasive Writing, Group Communication, Critical Thinking and Logic

Skills

Programming Languages: Java, Python, JavaScript, TypeScript
Web Technologies: HTML, CSS, React
Modeling & Specification: UML, OCL
Design Tools: Photoshop, Illustrator, InDesign, Figma
Version Control & Tools: Git, GitHub, VS Code
Other: Agile/Scrum familiarity, Responsive Design, REST APIs, Notion
Spoken Languages: English (Native), Hebrew (Fluent)

Technical Project Experience

Animal Web App — *TypeScript, Node.js, Express, HTML/CSS*
Designed a full-stack web application for managing animal profiles with dynamic frontend pages and a secure admin portal.

Mafia for iOS — *Swift*
Developed an app version of the social deduction game Mafia, featuring random role assignment and day/night cycles.

Connect Four AI — *Python*
Implemented an alpha-beta pruning AI agent with configurable depth limits and evaluation functions to play Connect Four.

K-Means Clustering — *Python, Matplotlib*
Created a clustering tool using k-means with support for iterated runs and gap statistic-based cluster count selection.

Subway Pathfinding — *Python*
Applied classical search algorithms (DFS, BFS, UCS, A*) to compute optimal routes through real-world subway systems.

Interactive 3D Room — *Python, OpenGL*
Developed an OpenGL-based interactive 3D scene with textured models, dynamic lighting, user navigation, and animated elements.

Longest Common Subsequence for Three Strings — *Java*
Built a dynamic programming solution with a 3D matrix to compute and reconstruct the longest common subsequence of three strings.

Dynamic Bounding Box (3D Points) — *Java*
Implemented a data structure for labeled 3D points using nested TreeMaps for efficient insert, update, delete, and boundary tracking.

LZW Compression & Decompression for DNA Data — *Java*
Implemented the Lempel-Ziv-Welch algorithm to compress and decompress nucleotide sequences, ensuring lossless reconstruction.

Personal Portfolio Website — *React, TypeScript*
Built and deployed a dynamic portfolio site to showcase projects using JSON-driven components and custom UI logic.
The site can be accessed here: www.samfeldsportfolio.com
It features all projects listed on this resume along with additional work, detailed descriptions, and repository links.

Employment

RC-Swift LLC, Waterbury, CT | *Warehouse management* — 2018 - 2024
Hillside Creative Group , Waterbury, CT | *Graphic designer* — 2021 - 2023
Kindred Spirit ABA, Waterbury, CT | *ABA Therapist* — Summer 2023