in linkedin.com/in/svelez11

• github.com/svelez1129

US Citizen

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

Bachelor of Science in Computer Science and Engineering; Minor in Economics

Graduating May 2027

Notable Coursework: Computer Systems Engineering, Software Construction (Typescript), Data Structures and Algorithms, Machine Learning, Computer Architecture, Macroeconomics, Microeconomics, Linear Algebra

EXPERIENCE

Replate

Duolingo Pittsburgh, PA

Incoming 2025 Summer Software Engineering Intern

October 2024-Present
Remote

Winter Software Engineering Intern

January 2025- February 2025

- Location-Based Metrics Integration: Collected location-specific metrics (food recovered, CO₂ diverted, meals delivered, water saved) using PostgreSQL and integrated them into client impact reports, enabling clients to better communicate their impact to stakeholders.
- Impact Report Redesign: Redesigned the location impact report in Figma, then implemented it using HTML/CSS to improve the ability for clients to showcase key metrics to stakeholders.
- API-Driven Data Visualization: Integrated Chart.js to display monthly donated food by location, giving stakeholders a clear snapshot of donations made and simplifying reporting processes.

Replate Remote

Software Engineer Intern

May 2024 - August 2024

- Content Management System: Implemented a key-value database with caching using PostgreSQL, improving overall workflow efficiency for 10+ admins by reducing their time spent updating HTML code.
- Front-End Development: Enhanced user experience using React by implementing user login state on Replate's website, resolving user sign-in conflict.
- Developed Internal Tools for Admins: Improved UI/UX for subscriber management by alphabetizing subscriber locations and allowing admins to sort through locations using React, increasing admin productivity.
- **Performance Optimization**: Reduced page load times by 50% by implementing caching strategies within the database, enhancing user experience and system performance.
- Version Control and CI/CD: Increased code quality through automated testing through Travis CI/CD and managed code base with GitHub, ensuring version integrity and smooth deployment.

PROJECTS

Star Battle: Recreated the game of Star Battle, focusing on server-side logic and game mechanics. Utilized Canvas API for graphics, designed and tested the Puzzle Abstract Data Type, and performed integration testing. Worked in a team of three and used an MIT GitHub account for version control and collaboration.

Memory Scramble: Built a multiplayer memory scramble game using Typescript, incorporating concurrent programming techniques for real-time game play. Implemented promises and deferred objects to handle game state synchronization across clients.

Amazon Stock Price Predictor: Developed a machine learning model in Python using Jupyter Notebook to predict Amazon's stock price, achieving a high accuracy rate through extensive data processing and feature engineering.

SKILLS

Programming: Python, JavaScript, TypeScript, C, C++, Assembly, C#, Java, Ruby on Rails, HTML/CSS

Technologies: Rest API, MongoDB, PostgreSQL, Canvas API, React, Artificial Intelligence, ESP32, Unity, Figma

Other Technology Skills: Concurrent Programming, Performance Engineering, Unit Testing, Using Web Sockets, Creating Abstract Data Types, Providing Code Review to my peers, Debugger, Command Line, Using Promises

Languages: English(Native), Spanish(Native)