

# Mira Behar

(206) 747-2814 | mbehar@alum.vassar.edu | linkedin.com/in/mirabehar

## EDUCATION

Vassar College, Poughkeepsie, NY

Graduated May 2023

Bachelor of Arts in Computer Science, GPA: 3.76/4.00

Relevant Coursework: Software Design and Implementation, Foundations of Data Science, Computer Organization, Theory of Computation, Analysis of Algorithms, Computational Linguistics, Compilers, Operating Systems, Artificial Intelligence, Applications of AI, GIS: Spatial Analysis

## SKILLS

Programming Languages: Java, Python, C, C#, Cython, SQL, OCaml, CSS, HTML, Racket, JavaScript, and Assembly

Development Tools: Android Studio, ERSI ArcGIS Pro, React, Git, SciPy, NumPy, ArcPy, and unit testing

Foreign Languages: Spanish (Proficient), Japanese (Advanced)

## RELATED WORK & RESEARCH EXPERIENCE

Freelance Web & App Developer | Remote

February 2025 – Present

- Built and customized Squarespace sites by implementing custom **CSS** code modules to enhance design, extend functionality, and integrate third-party tools beyond default platform capabilities.
- Designed and developed a Glide-based learning app, leading all aspects of **UI/UX design**, data modeling and app logic; implemented complex data relationships, advanced features and custom user flows.
- Provided technical consulting to clients, translating product requirements into functional solutions and delivering responsive, user-friendly web applications under tight deadlines.

Software Developer, Fast Enterprises | Anchorage, AK

July 2023 – Dec 2024

- Developed and maintained back-end functionality for client websites using **C#** and **.NET**, focusing on performance, scalability, and maintainability.
- Designed and implemented front-end components with **HTML** and **CSS** to improve usability and accessibility for public-facing portals.
- Wrote and optimized advanced **SQL** queries to support data integration and feature enhancements across internal systems.
- Provided technical support and troubleshooting for clients to ensure system reliability and uptime.

AI Algorithms Research, Vassar College | Poughkeepsie NY

Sep - Dec 2022

- Studied research on STN (Simple Temporal Network) algorithms, used for determining consistency, managing real-time execution, and managing new constraints in AI models.
- Implemented multiple STN algorithms using **Cython**.

## PROJECTS

OCaml Compiler

- Created a compiler that supports **OCaml** expressions including loops, function definitions and calls, and performs optimizations including strength reduction, constant propagation and copy propagation.
- Developed additional procedures to parse, type check, optimize, generate assembly for, and execute input OCaml expressions.

Spoiler Detector

- Implemented a binary classifier for spoiler detection in Goodreads book reviews, emulating the performance of neural network models.
- Utilized **SciPy** and **NumPy** libraries to analyze text and metadata feature data in **Python**.
- Designed and implemented my own NLP model, based on experimentation with the NLTK Naive Bayes, Sklearn Multinomial Naive Bayes, and Linear SVC (Support Vector Classification) models.

Campus Dining App

- Entailed the full stack development of an android app for accessing daily menus across the different dining locations at Vassar, following MVC logical structure.
- Developed back-end functionality in **Java** and implemented front-end using Java and **XML**.