Talia Berdichevsky

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EDUCATION

Northeastern University   Boston, MA

B.S. in Computer Science with a minor in Mathematics, concentration in Artificial Intelligence

Relevant Coursework: Graduate Level: Machine Learning, Software Engineering, Applied Linear Algebra, Computer Graphics

Core: Natural Language Processing, Object-Oriented Design, Cybersecurity, Artificial Intelligence, Computer Systems, Algorithms and Data Structures, Database Design, Mathematics of Data Models, Discrete Structures

Additional Coursework: Multivariable Calculus (**Harvard Extension School**)

EXPERIENCE

Wayfair Inc.   Boston, MA   *July 2023 – Present*

Software Engineer - Content Recommendations *Full-time (April 2024-Present), Co-op (July 2023-Dec 2023)*

- Orchestrated service modernization using CompletableFuture-based asynchronous processing & conducted critical load testing, demonstrating **70% reduction in P95 latency** and **6% throughput improvement**
- Drove **11.5% GRS/User Lift** during peak period by contributing to "Quarter Takeover" promo event development
- Engineered & enhanced recommendation strategies and Airflow/Cloud Composer DAGs, establishing automated alerting and improving pipeline reliability
- Recognized as key contributor among 250+ engineers for technical implementations in search recs & marketing analytics
- Designed scalable support request system, streamlining cross-team collaboration through automated ticket routing

Northeastern University   Boston, MA   *Sept 2022 – May 2023*

Civic AI Lab Research Associate

- Conducted text summarization/NLP research& modeling to combat disinformation in gig workers' information ecosystem
- Presented findings at **NATO Seminar 2022** and developed a website showcasing research findings, optimizing design using qualitative analysis on prototype interviews

Northeastern University   Boston, MA   *Jan 2023 – May 2023*

Teaching Assistant - Database Design

- Advanced student learning by promoting collaborative thinking and extending knowledge beyond coursework
- Evaluated assignments and facilitated office hours, providing targeted feedback to enhance student comprehension

TECHNICAL SKILLS

Programming: Kubernetes, AWS, DevOps, CI/CD pipeline, Jira, Figma, IntelliJ, XCode, Eclipse, DataGrip, Datadog

Coding Languages: Proficient in Java, C++, Python, Swift, HTML, JavaScript, CSS, System Verilog, Assembly, DLang

Languages: English (Native), Russian (Native), Hebrew (Native) & Spanish (Functional)

PROJECTS

ApartmentsNEU *(MySQL, HTML/Bootstrap, Flask, Python)*   *Jan 2022 –Dec 2022*

- Full-stack web app connecting students, advertisers & realtors to ease Boston-area housing search process difficulties

HowBusyIsMarino *(HTML/Bootstrap, Flask, AWS)*   *Nov 2022 –Dec 2022*

- AWS-powered analytics platform providing heat maps to track capacity trends at various NU gyms, helping students determine workout plans

Maze Simulator and Solver *(Java)*   *May 2022*

- Interactive maze game using Kruskal's algorithm w/ user-driven & automated solutions(breadth-first/depth-first searches)

Game of Life(GoL) App *(Swift)*   *April 2020*

- iOS cellular automaton simulator featuring custom state management system, dynamic pattern evolution, and interactive cell manipulation to enhance engagement, improving users' grasp on the game's algorithm