ALEX OLSON

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EDUCATION

BOSTON UNIVERSITY   Boston, MA
Bachelor of Arts: Computer Science   **Graduated Dec 2025**
Relevant Coursework: Software Engineering, Artificial Intelligence, Algorithms, Data Structures, Probability, Data Science
University Work Experience: CS412: Full-Stack Development Undergraduate Course Grader   Sep 2025 - Dec 2025

EXPERIENCE

EXTERN   Remote
Outamation: AI & Automation Extern   Jul 2025 - Sep 2025
- Constructed AI-powered Retrieval-Augmented Generation (RAG) pipelines for automated document processing, utilizing Python, PyMuPDF, FAISS, SentenceTransformers, Gemini, LLaMA, and Gradio to create an interactive chatbot experience.

Epic Games: Game Development & Design Extern   Jun 2025 - Jul 2025
- Designed and developed a fully functional Rube Goldberg machine within Unreal Engine using Blueprints and other physics-based tools. Produced a final video complete with narration and effects to present to the team at Extern and Epic Games.

COGNIZANT   Remote
Generative AI Extern   Apr 2025 - Jun 2025
- Developed AI-driven solutions utilizing Python, including API integration with popular large language models (LLMs) for automatic text completion, fine-tuning models to enhance accuracy, and prompt engineering for performance optimization.
- Acquired hands-on experience with key Generative AI concepts and technologies, including transformer architectures, LLMs, Generative Adversarial Networks (GANs), machine learning fundamentals, and AI bias/ethics.

BAUSCH + LOMB   Bridgewater, NJ
AI Innovation Developer Intern   Jun 2024 – Aug 2024
- Created chatbot prototypes for both single department and company-wide deployment. Designed chatbots to include action features such as scheduling meetings, sending emails, and to pull information from a company-defined knowledge bank.
- Automated complex business operations using Power Automate and the Microsoft Power Platform. One example included a Power Automate flow capable of sending AI-assisted approvals to relevant branches of the company and storing responses in a centralized SharePoint list.
- Developed employee usage and understanding of AI tools through interactive use-case training videos. Created a company Micro-Training page where employees could learn about Artificial Intelligence and access these videos.

PROJECTS *(See Portfolio Project)*

ExoCollect - Virtual Planet Discovery Web Platform | *Django, Python, PostgreSQL*   Aug 2025 - Present
- Co-founded ExoCollect, a full-stack Django web platform where users "discover" uniquely generated virtual planets with attributes inspired by real life astronomical frequencies. Implemented user authentication, planet generation algorithms, and fliterable/sortable archive and leaderboard tables to create an interactive user experience.
- Deployed a 3-week public demo version in August 2025 utilizing Heroku and a PostgreSQL database, and collected feedback via forms and an official platform LinkedIn page to guide future improvements.

MassMoney - Lottery Game EV Calculator Web App| *React, Next.js, MongoDB*   Nov 2025 - Dec 2025
- Collaborated on MassMoney, a React/Next.js web application that serves as a continuously updated expected value calculator for Massachusetts scratch-off lottery games, featuring responsive design, real-time data scraping, and MongoDB persistence.

ADDITIONAL

Technologies: Python, Java, JavaScript, TypeScript, OCaml, Git, GitHub, React, Django, Microsoft Power Platform, M365
General Skills: Programming, Artificial Intelligence, Software, Problem-Solving, Video Editing, Creativity, Teamwork, Writing
Certifications: HTML and CSS in depth (Meta); Programming with JavaScript (Meta); Version Control (Meta); Introduction to Front-End Development (Meta); Introduction to Generative AI Learning Path Specialization (Google Cloud Training Online); SQL Foundations (Microsoft); Software Engineering Job Simulation (Wells Fargo)