Benjamin Zlatin

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GitHub | LinkedIn | Active Secret Clearance

EDUCATION

University of Delaware
Bachelor of Science in Computer Science, Sept 2022 - May 2026
GPA: 3.53 / 4.00
Coursework: Data Structures, Algorithms, Advanced Web Technologies, Database Systems, Secure Software Design

EXPERIENCE

Software Engineer Intern | SciTec   **May 2025 - Aug 2025**
- Collaborated on advanced missile defense solutions, performing trajectory analysis and refining system parameters for optimized threat interception outcomes.
- Spearheaded analytical evaluations of 12 interceptor parameters across seven operational scenarios, pinpointing key sensitivities affecting threat interception range and providing actionable insights to senior engineers.
- Optimized and parallelized physics-based algorithms, reducing runtime by 75% (from 40 minutes to 10) through multithreading and early-exit conditions.
- Developed and deployed a new analytical feature to simulate and visualize missile trajectories using Python.
- Engineered and presented software implementation strategies, influencing system architecture decisions.

Software Developer | University of Delaware CIS   **Feb 2025 - May 2025**
- Developed and maintained the UD CIS Discord Bot, a full-stack web application utilizing TypeScript, MongoDB, and Google OAuth serving 4,000+ students and faculty.
- Designed and implemented the calendar feature integrating official UD Computer Science course data directly into Discord for easy class access and updates.

Full Stack Software Engineer Intern | EmberQA (Pivoted from RingFlare)   **May 2022 - Aug 2023**
- Engineered full-stack web and mobile applications with ReactJS, Node.js, and Electron, enhancing communication across 900+ facilities and improving client interactions in call centers.
- Refined the user interface (UI) and user experience (UX) of web and mobile applications based on time-sensitive client beta testing, leading to enhanced usability and a seamless end-user experience.
- Improved client onboarding to reduce training times from 3 weeks to 5 hours.
- Developed SQL queries to retrieve and manipulate data, ensuring accuracy in data management.

PROJECTS

StudyGuider (React, NextJS, NestJS, PostgreSQL, OpenAI)
- Developed StudyGuider, a full-stack web app built with React, Next.js, Nest.js, and PostgreSQL that automatically summarizes uploaded PDFs and slide decks into concise study notes.
- Built an AI-powered summarization engine to extract key concepts and highlight essential terms.
- Integrated secure user authentication and cloud storage for scalable, reliable file management.

StarterHelpi (React, OpenAI)
- Served as Scrum Master for "StarterHelpi," a career quiz application, overseeing agile processes and team collaboration to ensure timely and efficient project delivery.
- Integrated the OpenAI API to generate career quiz results and personalized user feeds, leveraging natural language processing and machine learning for enhanced user experience.

SKILLS

- JavaScript, TypeScript, Python, Pandas, NumPy, C++, Java, HTML, CSS**,** Git, React, Node.js, Next.js, Express, Nest.js, Prisma, PostgreSQL, MongoDB, Agile, AI Agents