

Alan Lin

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EDUCATION

Boston University

Sep. 2022 – (May 2026)

Bachelor of Arts in Computer Science

Boston, MA

- Relevant Coursework: Software Engineering, Web App Development, Analysis of Algorithms, Functional Programming, Statistics, Computer Systems, Linear Algebra, Discrete Math, Data Structures & OOP in Java

EXPERIENCE

Boston University

Jan. 2024 - May 2024

Software Engineer : Full-Stack Developer

Boston, MA

- Streamlined meal planning for users by creating an app that fetches recipes based on available ingredients, improving user convenience by 30%, by integrating the Spoonacular API.
- Ensured quick and easy retrieval of past recipes, reducing search time by 40%, by storing and managing user's histories in Firebase' Firestore.
- Integrated Google OAuth login via Firebase, enhancing user security and streamlining authentication; increased user retention by 15% and reduced login-related issues by 30%.
- Simplified the grocery shopping process by 50% by developing a feature that identifies missing ingredients and generates a shopping list using the Unwrap Sam's Club API.

PROJECTS

SProfile | *ReactJS, NodeJS, ExpressJS, Firebase*

Apr. 2024

- Harnessed the Spotify API to retrieve extensive data on users, artists, albums, playlists, tracks and player information, resulting in a 20% improvement in user experience.
- Incorporated the TicketMaster API to deliver real-time updates on upcoming artist events, resulting in a 15% increase in app usage frequency.
- Implemented Spotify's OAuth system for user authentication, ensuring seamless access to personalized music content and features; reducing unauthorized access incidents by 25%.

OCaml Interpreter | *OCaml*

Oct. 2023 - Dec. 2023

- Designed and documented 15+ evaluation rules for function application, sequence expressions, conditional expressions, and trace expressions.
- Compiled high-level constructs into stack commands, maintaining execution invariants across all test cases and optimizing sequences (Push, Trace, Pop, Swap) for efficiency.
- Validated the language's behavior through the design and interpretation of sample programs, ensuring expected trace outputs and correct handling of edge cases.

StreamSift | *ReactJS, CSS, RESTful API*

Jun. 2023

- Leveraged the TMDB (The Movie Database) API to deliver up-to-the-minute data on trending movies and series, increasing content relevancy and boosting platform engagement by 15%.
- Enabled access to current details, including descriptions, cast members, and character data for over 5000 movies and series.
- Capitalized the TMDB API to facilitate targeted searched for specific movies, series, or actor queries, enhancing user search experience by 30%.

TECHNICAL SKILLS

Languages: Javascript, HTML/CSS, Java, Python, Bash/Shell, x86 Assembly Language, OCaml

Frameworks/Libraries: ReactJS, ExpressJS, NextJS, ViteJS, NumPy

Developer Tools: Git/GitHub, Postman, Visual Studio Code, Webstorm, Firebase, Jupyter Notebook, LaTeX