Boston, MA
Availability: Jan – Aug 2026

Ashwin H. Iyer

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Education

Boston, MA **Northeastern University** **Expected May 2028**
Candidate for Bachelor of Science in Computer Science and Business Administration **GPA: 3.7**
Honors/Activities: Scout, Forge, NU Systematic Alpha
Relevant Coursework: Discrete Structures, Introduction to Databases, Program Design & Implementation, Business Statistics, Financial Management

Languages and Technologies

Languages: C++, Java, Python, JavaScript, TypeScript, SQL, Kotlin
Frameworks & Libraries: React, Redux, TensorFlow, Keras, Pandas, NumPy
Developer Tools: Git, IntelliJ, Eclipse, PyCharm, Xcode, PostgreSQL, Microsoft ADO

Work Experience

Front-End Developer Intern **Zeal IT Consultants** **May 2025 – August 2025**

- Developed the frontend for Trinity Industries' Asset Management System using React and Next.js.
- Increased sprint capacity for UI development by over 10 story points per sprint, accelerating the project timeline by 4 weeks, and increased the overall team delivery capacity by 300% within one release cycle.
- Decreased page loading times by migrating from MobX to Redux in addition to implementing server-side rendering, resulting in a 94% decrease in page load times.

Projects

Her Impact Project | *HTML, CSS, Javascript* June 2022 – Present

- Built and maintain the website for the Her Impact Project, a non-profit organization that aims to support female founders.
- Reduced 90% of costs for the organization by utilizing Github Pages and open-source alternatives for previously paid products and services.

Algorithmic Options Trading | *Python, TypeScript, Pandas, NumPy* August 2024 – December 2024

- Built an algorithmic trading tool that utilized the difference between implied volatility and realized volatility to suggest option strategies.
- Used the Black-Scholes model to calculate implied volatility and compared it against historical volatility to perform a volatility mean reversion by buying underpriced straddles.

HomeReady Pro | *Python, React, TypeScript, Insomnia* November 2023

- Created the backend in Python and integrated the OpenAI API. This allows users to evaluate their finances and get personalized recommendations to achieve homeownership through loan eligibility.
- Used Kintone to organize the project workflow and was awarded the top prize in the Kintone challenge at HackUTD with over 875 participants.

PaveGuard | *React, Python, YOLO* October 2023

- Developed an image recognition model to categorize potholes and other road fractures, enabling a crowd-sourced approach to addressing city infrastructure needs.
- Trained a YOLO model on road fractures and hosted the backend locally. Awarded the top prize in the AI for All hackathon hosted at the University of Texas at Dallas.

Interests

Hackathons, Reading, Rubik's Cube, Chess, Poker, Baseball, Blogging, Football, Working Out, Watches, Shoes