Boston, MA
Availability: July – 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: 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, Electron, Redux, TensorFlow, Keras, Pandas, NumPy
Developer Tools: Git, IntelliJ, Eclipse, PyCharm, Xcode, PostgreSQL, Microsoft ADO

Work Experience

Global Risk & Analytics Co-op **Wellington Management** **December 2025 – June 2026**
- Engineered advanced risk management tools in Python, utilizing proprietary factor risk models to compute risk metrics for equities and alternative asset classes in support of quantitative research.

Software Engineering 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

NU Co-op Screener | *JavaScript, NLP.js* December 2025 – Present
- Created a Chrome extension that allows users to input their resume to screen skills and graduation date against jobs within the Northeastern portal to automatically favorite relevant jobs, decreasing job search time.
- Used NLP.js to filter out ineligibility due to graduation year and cosine similarity to find similarities between the user's skills and job descriptions.

Row 2 Reach | *Electron, JavaScript* September 2025 – Present
- Created a desktop application that allows users to find people's emails given their name and company using Electron and JavaScript.
- Utilized Electron Builder and Electron Winstaller to allow for cross-platform compatibility, easy installation, and automatic updates.

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.

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