Boston, MA
Availability: July – Aug 2026

Ashwin 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, Dean's List
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

Wellington Management **December 2025 – June 2026**
Global Risk & Analytics Co-op
- 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.

Zeal IT Consultants **May 2025 – August 2025**
Software Engineering Intern
- 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 expanding overall team delivery capacity by **300%** within one release cycle.
- Reduced page loading times by migrating from MobX to Redux and implementing server-side rendering, resulting in a **94%** performance improvement.

Projects

Prediction Market Trading | *Rust, AWS* | Portfolio December 2025 – Present
- Implemented a mathematical model to price a specific prediction market in real-time, hosted on an AWS EC2 instance for low-latency API access.
- Capitalized on a market edge and scaled the strategy to achieve a **net adjusted Sharpe ratio of 1.2** over a two-month period, with a maximum drawdown of **10%** and overall returns of **40%**.

PM-Trading Desk | *Python, WebSockets* | Github September 2025 – Present
- Developed a prediction market trading application using WebSockets for real-time data access and hotkeys for rapid trade execution.
- Implemented a **smart order router** that routes orders between Polymarket and Kalshi to secure the best possible price through **cross-exchange execution**.

Algorithmic Options Trading | *Python, Pandas, NumPy* | Github 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* | Github 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. Secured the **top prize** in the AI for All hackathon at the University of Texas at Dallas.

Interests

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