

Boston, MA  
Availability: July – Aug 2026

# Ashwin Iyer

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## Education

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**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

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**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

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**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 across equity and alternative asset portfolios.
- Collaborated with investment specialists to analyze risk exposures across global equity portfolios, enabling portfolio managers to identify and mitigate systematic risk factors.

**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

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**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, processing **500+** market updates per second with sub-**50ms** order execution latency.
- Implemented a **smart order router** across Polymarket and Kalshi, achieving **2-5%** average price improvement per trade through **cross-exchange execution**.

**Algorithmic Options Trading** | *Python, Pandas, NumPy* | [Github](#) **August 2024 – December 2024**  

- Built an algorithmic trading tool scanning **200+** option chains daily, utilizing the difference between **implied volatility** and realized volatility to identify mispriced straddles with a **62%** win rate.
- Used the **Black-Scholes model** to calculate implied volatility across **30-day** rolling windows and performed **volatility mean reversion** strategies yielding **10%** simulated annual returns.

**PaveGuard** | *React, Python, YOLO* | [Github](#) **October 2023**  

- Developed an image recognition model achieving **71%** accuracy in categorizing potholes and road fractures across **5** damage types, trained on a dataset of **8,000+** images.
- Built a full-stack crowdsourced reporting platform with React frontend and Python backend. Secured the **top prize** out of **40+** teams in the AI for All hackathon at UT Dallas.

## Interests

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