

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
<i>Global Risk & Analytics Co-op</i>	
• 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
<i>Software Engineering Intern</i>	
• 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 <i>Rust, AWS</i> 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 <i>Python, WebSockets</i> 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 <i>Python, Pandas, NumPy</i> 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 <i>React, Python, YOLO</i> 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