

# Inhye Kang

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## EDUCATION

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**Boston University** – *B.A. in Computer Science*

May 2025

**Relevant Coursework:** Machine Learning for Business Analytics, Data Science Tools and Applications, Software Engineering, Introduction to Artificial Intelligence, Computer Systems, Full Stack Development, Data Structures and Algorithms, Probability in Computing, Linear Algebra, Discrete Mathematics, Macroeconomics, Distributive Systems, Theory of Computation

**Activities:** BU Finance & Investments Club, BU Spark! Innovation Lab, BU Korean Student Association, Alpha Delta Pi

## SKILLS

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Python, SQL, Java, Spring Framework, MVC Architecture, JUnit, Mockito, UNIX, Scripting, Data Analysis, Excel, Powerpoint, Git, AWS, Atlassian Jira, Agile, REST APIs, QA Testing, Technical Documentation, Production Support, User Acceptance Testing, SDLC

## EXPERIENCE

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**Full Stack Software Engineer Intern**, Fidelity Investments | Boston, MA

June 2024 – Aug 2024

- Saved 400ms and increased cloud resiliency in the brokerage order system to enable faster, more reliable client order execution
- Built and presented Datadog dashboards visualizing consumer activity to help clients monitor trends and make informed decisions
- Served as primary point of contact for clients regarding bond order issues, coordinating fixes with team to ensure timely resolution

**Systems Engineering Assistant**, Harvard University Dept. of Mathematics | Cambridge, MA

Sep 2022 – Sept 2023

- Managed software requests and installations for faculty and researchers to maintain security compliance and seamless workflow
- Created clear system documentation and usage/troubleshooting procedures to help clients navigate department systems efficiently

**Technology Operations Associate/Sailing Instructor**, Community Boating Inc. | Boston, MA

June 2022 – Present

- Modernized internal platform to improve sign-out and financial operations efficiency for 10,000 members
- Facilitated hands-on learning in building remotely-operated submersibles in collaboration with MIT Robotics
- Bridged client-side instruction to backend development, leveraging first-hand insights to enhance operations and client satisfaction
- Taught sailing to youth, veterans, and individuals with disabilities to foster accessibility, inclusion, and engagement

## PROJECTS

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**BU Alpha Quant Senior Project – LLM-Driven Automated Trading Strategy**

Oct 2024 – Feb 2025

- Built an autonomous trading system with a hedge fund advisor, combining time-series analysis, LLM-derived sentiment and volatility signals through EMA regression models to forecast market movements and optimize portfolio performance
- Delivered weekly performance analytics on a simulated \$10K portfolio, refining model parameters to improve Sharpe ratio, risk-adjusted returns, and signal reliability for real-world deployment

**Credit Card Fraud Detector with Machine Learning**

April 2024

- Utilized XGBoost, RFM Analysis, and polynomial transformations to predict fraudulent transactions from a dataset of 556k entries
- Achieved a 93% F1 score through extensive feature engineering, recursive feature elimination with cross-validation, and data preprocessing strategies to manage imbalances and optimize predictive capabilities for real-world application in fraud detection

## LEADERSHIP & HONORS

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**Team Leader**, HackMIT | Massachusetts Institute of Technology

Oct 2022

- Managed a team in developing a Spotify API-integrated application and delivered a competitive pitch to a board of industry judges, showcasing product value and addressing technical and business questions

**Founder & Director**, inteGIRLS Boston Chapter | Boston, MA

Aug 2020 – Aug 2022

- Led the Boston chapter of the non-profit organization to promote STEM involvement for female and non-binary students
- Hosted national virtual math competitions, which had over 500 participants nationwide

**Team Leader**, PPE for Healthcare | Andover, MA

Apr 2020 – May 2021

- Mass-produced 3000+ 3D-printed PPEs for healthcare/frontline workers, non-profit organizations, and businesses internationally

**Honors:** Grace Hopper Conference 2023, Jane Street-MIT Math Prize for Girls Alumni, American Mathematics Competition Honor Roll (Top 2.5%), USA Math Olympiad Preliminary Round Qualifier, MA State Seal of Biliteracy