

Jackson Belanger

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 4.0

Expected May 2027

- Concentrations: Artificial Intelligence, Systems & Architecture

WORK EXPERIENCE

Software Engineer Intern

June 2024 – Present

Fidelity Investments

Boston, MA

- Engineered key features for Fidelity's career portal for applicants and recruiters using Angular, Spring Boot, and PostgreSQL.
- Reduced load times by 40% by optimizing GraphQL queries, implementing a caching system, and improving server logic.
- Collaborated with a cross-functional team in an Agile environment. Ensured seamless integration through CI/CD practices.

Software Developer

May 2023 – May 2024

Tree-Plenish (Environmental nonprofit)

Remote

- Developed a full-stack Flask web application, enabling rules-based app notifications and automated order tracking emails.
- Improved retention rate by 20% by analyzing the factors predictive of a school returning using Python, Pandas, and NumPy.
- Developed volunteer dashboard and login flow for over 3,000 volunteers on mobile app using Flutter.

Software Development Intern

June 2023 – Aug 2023

Indigo Slate

Seattle, WA

- Developed a live project management report for 150 employees with React, ensuring confidentiality by allowing workers to view only their assigned projects. Enhanced security by implementing Microsoft SSO for identity verification.

PROJECTS

Competitive Stock Trading Platform | React Native, JavaScript, TypeScript, Redux, Express.js, Node.js, MongoDB

- Engineered a highly engaging head-to-head stock trading platform. Implemented RESTful APIs and WebSockets for real-time data synchronization. Optimized system performance with efficient data management and transaction processing.

Database API Generation and Hosting Platform | React.js, Express.js, LangChain, OpenAI GPT-4, HTML/CSS, JavaScript

- Developed a LangChain and GPT-4 powered tool that automates API generation and hosting for MongoDB databases from natural language descriptions and database schemas, ensuring efficient and streamlined API deployment for users.

S&P 500 Stock Trading Bot | Python, Pandas, yfinance, Backtesting.py

- Developed an algorithmic trading bot using a 200-day moving average and Bollinger Bands to trade on the S&P 500.
- Achieved a 2610% return on a backtest of the last 18 years, attaining 7x the return of passively holding the SPY Index.

ACTIVITIES

Quant Sector: Machine Learning Team

Jan 2024 – Present

GTSSF Investments Committee

- Build a regression model to determine a weighted vector of assets replicating the performance of the SPX index with Python.

Quant Trading Analyst

Jan 2024 – Present

Trading Club @ Georgia Tech

- Model sector ETFs' volatility surfaces based on the volatilities of the largest components with principal component analysis.

3rd Place in Harvard Trading Competition

March 2024

Harvard Undergraduate Quantitative Traders

- Competed in ranked games testing skills in market making, betting, data analysis, and making decisions under uncertainty.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, HTML/CSS, SQL, GraphQL

Frameworks and Libraries: React, Angular, Node.js, Express.js, Spring Boot, Flask, React Native, Flutter, Pandas, NumPy

Developer Tools: Git, GitHub, Jira, MongoDB, PostgreSQL, AWS, Google Cloud, Firebase, Postman, Jenkins, Webpack

Concepts: Object-Oriented Programming, Data Structures and Algorithms, Cloud Computing, Debugging, SDLC, Agile