

Jackson Belanger

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science | GPA: 3.96

Expected May 2027

- Coursework: Computer Architecture, Networking & Processors, Artificial Intelligence, Data Structures & Algorithms

WORK EXPERIENCE

Software Engineer Intern

May 2025 – present

Roblox

San Mateo, CA

- Developing a Kubernetes controller using Go to orchestrate percentage-based rollouts for compute workloads.

Software Engineer Intern

June 2024 – Aug 2024

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 implementing caching with Redis, optimizing GraphQL queries, and improving server logic.
- Collaborated with a cross-functional team in an Agile environment. Ensured seamless integration through CI/CD practices.

Software Developer Intern

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.

Software Developer 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 and login flow by implementing Microsoft SSO for identity verification.

PROJECTS

Windows Virtualization Platform | C++, Linux, KVM, QEMU, libvirt, WebRTC

- Engineered a virtualized Windows environment management system using libvirt and KVM/QEMU, featuring dynamic VM provisioning and low-latency display streaming via WebRTC. Allows users to interact with Windows through a web browser.

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

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

Database API Generation and Hosting Platform | React, Express.js, LangChain, OpenAI GPT, 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.

ACTIVITIES

Full-Stack Developer

Aug 2024 – Present

Bits of Good @ Georgia Tech

- Develop a platform for nonprofit organizations to track funding and expenditures using React, Node.js, and MongoDB.

Quant Trading Analyst

Jan 2024 – Dec 2024

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, Go, C, C++, Swift, TypeScript, HTML/CSS, SQL, GraphQL

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

Developer Tools: Git, GitHub, Webpack, Jira, MongoDB, PostgreSQL, AWS, Docker, Firebase, Postman, Jenkins, Kubernetes

Concepts: Databases, Cloud Computing, Debugging, Optimization, Unit Testing, Web Services, Version Control, Agile, SOA