Brian Gleason

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Campus Address: *Permanent Address:*
1501 Maple Avenue, Evanston, IL, 60201   161 Park Street, West Roxbury, MA, 02132

EDUCATION

Northwestern University, Evanston, IL
BA in Computer Science Major, Integrated Marketing Communications Certificate, Anticipated June 2023
Cumulative GPA: 3.53 | Major GPA: 3.69
Relevant Coursework: Fundamentals of Computer Science I & II, Data Structures and Algorithms, Agile Software Development, Artificial Intelligence, Natural Language Processing, Online Markets, Analysis of Algorithms

WORK EXPERIENCE

CME Group, Chicago, Illinois
Software Engineering Intern, June 2022 - August 2022
- Redesigned and updated Asset Management system and user interface using Java, React, and SQL, handling the data for what asset types the Chicago Mercantile Exchange (CME Group) will accept as liquidity from its customers
- Designed interface for Asset Management system with React and Redux for effective state management, utilizing custom components, filtering, searching, user inputs, and clear notifications confirming user actions and mistakes
- Migrated 11, repaired 1, and built 3 REST endpoints to facilitate management of asset data through Java service backend
- Iterated on and improved project by adding new functionality, synchronizing styling with similar services, and improving code formatting, drawing from constructive feedback from end users, QA team, and end of internship presentation,

CloudHealth by VMware, Boston, Massachusetts
Software Development Intern, June 2021 - September 2021
- Developed a regional spend monitoring system for collection and processing of customers' AWS data to achieve work avoidance and increased scalability for CloudHealth
- Reduced cost and increased efficiency of data collection from AWS by eliminating unnecessary calls based on customer usage, shortening job runtimes by preventing overseas queries, and decreasing AWS throttling by minimizing calls to smaller regions
- Saved 950 million API calls per day, a 23% decrease in system-wide API calls, generated a 35-45% decrease in job runtimes for impacted services, and reduced throttling from AWS
- Wrote project design document, added JIRA tickets for the project, and made essential design decisions

Northwestern Computer Science Department, Evanston, Illinois
Peer Mentor, COMP_SCI 211, COMP_SCI 348, September 2021 - Present
- Taught students of Fundamentals of Computer Science II and Introduction to Artificial Intelligence
- Led office hours, providing students with personalized assistance to facilitate a better understand of topics from class, instructing up to 30 students a session
- Graded written assignments and exams, providing constructive feedback on functionality, performance, and style

PROJECTS

- Portfolio Site: brian-gleason.com, LinkedIn: linkedin.com/in/brian-gleason1, Github: github.com/BrianGleason
- Developed CROWNS, a minimum viable product web-app designed to help people with underrepresented hair types find products, services, and community, using React, Google Firebase, Google Authentication, Github Workflows, and Cypress with a team of Northwestern undergraduate students and MBA students from Northwestern's Kellogg School of Management
- Competed in 36 hour Hackathon hosted by CME Group, developing a high frequency trading algorithm to run on a market simulation against opposing teams, leveraging complex event processing to exploit the market
- Built a Twitter data interpreter with three Northwestern students, utilizing NLP to analyze tweets around award shows, identifying hosts, winners, nominees, presenters, and sentiment towards participants

SKILLS

- Languages: Python, JavaScript, C++ (Proficient) | Java, Ruby (Knowledgeable)
- Other: React, Redux, REST (Proficient) | AWS DynamoDB, GraphQL, Redis, SQL (Knowledgeable)

EXTRACURRICULARS

- Northwestern Esports Club League of Legends Game Head (2022-present) - Leading section of Northwestern Esports club, organizing events for as many as 30 members, managing competitive and semi-competitive teams, negotiating school funding for club activities, and recruiting new members
- Northwestern Intercollegiate League of Legends Varsity team member (2019-2021)
- Chinese Language Award, Head of Chinese Language and Culture Club (2019)