

Brian Gleason

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EDUCATION

Northwestern University GPA: 3.63

September 2019 – June 2023

BA in Computer Science, Marketing Communications Certificate

Evanston, IL

EXPERIENCE

Software Engineer I

June 2023 - Present

CME Group

Chicago, IL

- Migrating bulk data processing jobs using Apache Spark, Scala, and Python from AWS to GCP, optimizing them to run within Dataproc while containerized and scaled with Google Kubernetes Engine

Software Engineering Intern

June 2022 - August 2022

CME Group

Chicago, IL

- Redesigned and updated Asset Management system that dictates how CME Group will accept liquidity from its customers from depreciated Angular version to React and Redux, using Java, Spring, and SQL for the backend.
- 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
- Migrated and built new REST endpoints to facilitate management of asset data through Java Spring service layer.

Software Development Intern

June 2021 - September 2021

CloudHealth by VMware

Boston, MA

- Developed a regional spend monitoring system for collection and processing of customers' AWS data to achieve work avoidance and increased scalability for CloudHealth using JRuby, AWS DynamoDB, Redis, and RSpec
- 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

Peer Mentor

September 2021 - February 2023

Northwestern University

Evanston, IL

- Taught students of Fundamentals of Computer Science II, Introduction to Artificial Intelligence, and Introduction to Networking, covering topics from memory management in C to TCP/IP protocols and routing algorithms
- Led office hours, providing students with personalized assistance to facilitate a better understanding 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

CROWNS | *React, Google Firebase, Google Authentication, Github Work*

- Developed a product prototype webapp with team of classmates for team of MBA students at Northwestern's Kellogg School of Management to help people with less common hairtypes
- Used React for the frontend, Google Auth for user information and security, Google Firestore and Firebase for data storage, Cypress for end-to-end testing, and Github Workflows for the CI/CD pipeline
- Utilized frequent user testing, generation of user stories, and feedback from the project management team to continually improve user experience

PhotoApp | *Python, JavaScript, Node.js, AWS S3, RDS MySQL, EC2*

- Built a CLI tool that allows users to upload to, download from, and search a repository of photos by metadata such as date and location
- Leveraged S3 for image storage, image compression for cost reduction, RDS MySQL as a primary database, Node.js and Express.js for serverside processing, and a RESTful client server architecture hosted on an EC2 instance

TECHNICAL SKILLS

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

Other: React, REST, Spring Boot, Kubernetes, JUnit, GCP, AWS, Redux, Redis, Git, Linux