

# Kyle Chung

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## EDUCATION

**Northeastern University**, Khoury College of Computer Sciences

**Sep 2021 – May 2025**

*Bachelor of Science in Computer Science and Business Administration, Concentration in FinTech*

**GPA:** 3.8 / 4.0 | Dean's List

**Coursework:** Software Engineering, Web Development, Mobile Application Development, Object-Oriented Design, Computer Systems, Algorithms & Data Structures, Database Design, Foundations of Data Science, Fundamentals of Computer Science

## WORK EXPERIENCE

### Google

*Software Engineer Intern - Google Workspace | New York, NY*

**Jun 2024 – Sep 2024**

- Integrated Google Drive quota charging into all newly created Google Sites, supporting document size calculation and new server-side behaviors to prevent edit requests from users whose quota has been breached
- Implemented banner notification system to the client that alerts users when their Drive storage quota is exceeded, providing call to actions to resolve the issue or learn more
- Utilized Cloud Spanner-backed queues to perform document snapshot removal asynchronously on document close to decrease the rate of document snapshot storage growth for larger documents, cleaning up 200-400 documents-per-second
- Migrated legacy graph processing framework to a promise-based architecture, improving maintainability and scalability
- Refactored code to eliminate unnecessary exceptions handling, reducing tech debt and improving consistency across multiple team-owned codebases

*STEP Intern - Google Cloud | New York, NY*

**Jun 2023 – Sep 2023**

- Designed and developed C++ pipeline for large-scale data processing, leveraging Bigtable to extract, aggregate, and visualize data from over 74 billion rows of hotel pricing data
- Created a data visualization navigator to measure resource usage, regularly used by team members to easily analyze data and make decisions surrounding partner data limits
- Collaborated with senior engineers to complete an entire software development cycle, from writing design documents to launching the final product
- Implemented over 50 C++ unit tests using GoogleTest, adhering to Google style and standards while navigating a large and complex codebase

### Infinite Cooling

**Jan 2024 – Jun 2024**

*Full Stack Software Engineer Co-op | Malden, MA*

- Optimized state and cache management on the frontend, decreasing latency by over 50% and enhancing user experience
- Developed and deployed RESTful APIs using Django and MongoDB to efficiently retrieve and manipulate data
- Implemented customer-facing features in React TypeScript, including interactive data visualizations to enhance user experience and meet evolving customer requests

### Mastercam

**Jan 2023 – Jun 2023**

*Software Engineer Co-op | New York, NY*

- Reduced production build times by up to 70% by optimizing build workflows using a combination of declarative and scripted Jenkins Pipelines, parallelization, artifact caching, and environment isolation with Docker
- Migrated from SVN to Git, replaced inefficient direct database calls with REST APIs, and refactored legacy PowerShell and Groovy scripts to streamline development processes
- Hosted monthly knowledge sharings about how to leverage Jenkins Pipelines and GitHub Actions

## PROJECTS

### MakeMoney

- Developed a stock tracking tool that allows users to create public and private watchlists, view other users' profiles, and manage portfolios using a Node.js, Express.js, and MongoDB backend with Yahoo Finance API integration

### Image Processor

- Developed a Java-based image processing application, supporting manipulation, enhancement, layering, and import/export in various formats, with command line and graphical user interfaces using the behavioral command design pattern

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, JavaScript, Typescript, HTML, CSS, Bash, PowerShell

**Technologies:** React.js, Node.js, Express.js, Django, MongoDB, MySQL, Cloud Spanner, Cloud Bigtable, Protocol Buffers, Guice

**Developer Tools:** Git, GitHub Actions, Jenkins, Postman, JUnit, Jest, Docker