Kyle Chung

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EDUCATION

Northeastern University, Khoury College of Computer Sciences   **Sept 2021 – May 2025**
B.S. Candidate | Computer Science and Business Administration
GPA: 3.8 / 4.0 | Dean's List
Coursework: Web Development, Algorithms and Data, Computer Systems, Object-Oriented Design, Database Design, Fundamentals of Computer Science I & II, Discrete Structures

WORK EXPERIENCE

Google   **June 2023 – Sept 2023**
STEP Intern - Lodging Partners and Content
- Developed C++ (Apache Beam like) pipeline for large scale data processing to extract, aggregate, and visualize data from over 74 billion rows of hotel pricing data
- Created a data visualization navigator to measure resource usage, enabling 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 utilizing internal code search tools
- Leveraged Google Bigtable to query and analyze pricing data to better comprehend how data is stored and managed

Mastercam   **Jan 2023 – June 2023**
Software Engineer Co-op
- Achieved efficiency gains of production builds by up to 70% by optimizing build workflows using continuous integration techniques
- Deployed new and updated existing PowerShell and Groovy build automation jobs to streamline development processes
- Implemented modernization initiatives including migrating from SVN to Git, replacing inefficient direct database calls with REST APIs to improve scalability, and refactoring legacy scripts to streamline workflows
- Demonstrated how to leverage Jenkins Pipelines and GitHub Actions to enhance team skills and knowledge for integrating and adopting more efficient solutions
- Utilized Digital.ai Agility to establish sprint planning, backlog prioritization, and collaboration to greatly enhance team productivity

PROJECTS

Image Processor
- Created an image processing application in Java that supports image manipulation, enhancement, layering and importing/exporting in various formats through the behavioral command design pattern
- Implemented functionality through command line and graphical user interfaces

Maze Search
- Randomly generated mazes of different sizes using Kruskal's algorithm and supported depth-first search and breadth-first search traversal
- Utilized a Java graphics library to create the image-based maze solver

TECHNICAL SKILLS

Extensive Experience: C++, Java
Knowledge of: JavaScript, HTML, CSS, React.js, Node.js, MongoDB, Groovy, PowerShell, MySQL
Technologies: CI/CD, Protocol Buffers, Apache Beam Concepts, Agile
Applications: Git, Jenkins, GitHub Actions, SVN