

# Andrew Chew . Jarvis Consulting

I am a recent graduate from the University of Toronto with a background in software development, data analytics, and have over 5 years of customer service experience. I am highly adaptive to new environments and always looking for opportunities to enhance my capabilities. Currently, I am working as a Junior Software and Data Engineer at Jarvis Consulting Group where I work with my team in an agile environment to deliver high quality software products. I believe that the software industry is moving at an incredibly rapid pace with new innovations and technologies being discovered every day. I am excited to pursue my two biggest passions in software and data engineering to join this ever-evolving community, utilizing big data to design products to make the world a better and infinitely more interesting place.

## Skills

**Proficient:** Java, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git/GitHub, R/R Markdown, Microsoft Office Suite

**Competent:** Docker, Python, GitFlow, LaTeX, Google Workspace

**Familiar:** Google Cloud Platform, VNC, Maven, Log4j/Slf4j, JavaFX, C, Verilog

## Jarvis Projects

Project source code: [https://github.com/jarviscanada/jarvis\\_data\\_eng\\_AndrewChew](https://github.com/jarviscanada/jarvis_data_eng_AndrewChew)

**Linux Cluster Monitoring Agent** [GitHub]: Developed a Linux Cluster Monitoring Agent allowing the Jarvis Linux Cluster Administration team to obtain server hardware and usage statistics in real time. Provisioned a psql instance using a docker container to persist data and designed a bash agent to be installed on servers to collect and insert data into the database. Implemented 3 SQL queries to answer business questions. Collaborated with the development team using the Agile workflow.

**Core Java Apps** [GitHub]:

- Twitter App: Not Started
- JDBC App: Not Started
- Grep App: Developed a java Maven project to perform regex pattern matching on files in a given directory. Leveraged the log4j and slf4j packages to log error messages.

**Springboot App** [GitHub]: Not Started

**Python Data Analytics** [GitHub]: Not Started

**Hadoop** [GitHub]: Not Started

**Spark** [GitHub]: Not Started

**Cloud/DevOps** [GitHub]: Not Started

## Highlighted Projects

**Sokoban, Othello, and Tenner Grid AI Solver:** Applied key concepts in AI to develop solvers for 3 games using python attaining a final grade of 94. Strategized and developed heuristics to improve runtime performance of solvers by over 75%.

**Data Visualization Project on Climate Change** [GitHub]: Managed a team of 3 to identify and analyze 4 large datasets, investigating the relationship between emissions and methods of transportation. Led tutorial sessions introducing RStudio and Version Control via GitHub integration to facilitate collaboration between team members. Designed 3 interactive data visualizations using psychological principles to effectively present and communicate key findings. Rapidly learned and applied the Shiny R package within a week to deliver infographic publicly by deploying a Shiny App online.

**Cross-Stitch Image Processing Project:** Developed an R program to produce a cross-stitch pattern from an image using k-means clustering attaining a final grade of 88. Compiled a self-contained non-technical pdf document using Rmd demonstrating the process of the program and how to use it.

**Twitter Sentiment during COVID-19 Project:** Scraped over 4 million tweets to build a dataset to analyze consumer sentiment during the pandemic in a team of 4. Performed data analysis to identify new terms relating to the pandemic and how they relate to consumer sentiment using machine learning techniques in python.

**Restaurant POS System Project:** Managed a team of 3 to fully develop a restaurant point of sale system in java utilizing fundamental OOP concepts. Built a fully functioning GUI using JavaFX. Effectively identified and fixed core issues in the code base using vigorous unit testing to improve user experience.

## Professional Experiences

**Junior Software & Data Engineer, Jarvis Consulting Group (2021-present):** Develop software using the SDLC process in an agile work environment, delivering high-quality products.

**Produce Clerk Part-Time, Loblaw Companies Limited (2016-present):** Advise customers on over 400 products leading to improved customer satisfaction. Effectively handle conflict resolution in a sensitive and professional manner ensuring safety in the workplace. Train new employees for day-to-day operations. Successfully completed diversity training.

**Events Coordinator, Hope United Church (2012-2016):** Managed a team of 3 to organize after-school activities for 10 children. Strategized learning sessions for grade school children in Mathematics and Science. Taught children basic piano skills.

## Education

**University of Toronto (2017-2021),** Honours Bachelor of Science, Actuarial Science, Statistics, and Computer Science  
- President's Entrance Scholarship - Samuel Eckler Memorial Scholarship in Actuarial Science - GPA: 3.31/4.0

## Miscellaneous

- Coursera Data Scientist Toolbox (2020)
- Coursera R Programming (2020)
- Pianist
- Ultimate Frisbee Player
- Nature Enthusiast