

# Aaron Cheng

 ChengAaron |  Aaron Cheng |  cheng.aaron@proton.me |  Website

## SKILLS

---

<b>Software</b>	<b>Microsoft Suite</b> (PowerBI, Excel, PowerPoint, Access, Word, Publisher) <b>Google Workspace</b> (Sheets, Slides, Docs) <b>Misc</b> (Arch Linux, Windows, Figma, Git, Jupyter Notebook)
<b>Programming</b>	Python, SQL, MATLAB, Java, Javascript, Dart
<b>Frameworks</b>	Flask, Tailwind CSS, Flutter
<b>Libraries</b>	pandas, Matplotlib, React.js

## EDUCATION

---

Bachelor of Arts, Information Technology at **York University** 2022 - Present  
**Relevant Courses Taken:** Introduction to Data Science, Applied Data Communications and Networks, Using and Designing Database Systems, Systems Analysis and Design, IT Project Management, IT Risk Management

## PROJECTS

---

### Rice Analysis

- Led and managed a comprehensive team research project utilizing **MATLAB** to analyze scientific data sets on the Cammeo and Osmancik rice species
- Developed code to clean, preprocess, and transform a large dataset of over 3,000 data points, increasing accuracy of analysis by removing outliers and incomplete data points leading to improved accuracy and reliability in the analysis
- Performed A/B tests on variables to validate hypotheses and test various variables, ensuring the precision of findings and correlations

### NYC Business Project

- Led collaborative team research project analyzing NYC demographic data of over 300,000 unique data points, extracting valuable insights to inform data-driven decisions
- Utilized data cleaning and transformation techniques on NYC economic datasets using **pandas**, **Matplotlib** and other data visualization tools for data analysis in graphical form

### Morse

- Awarded the hardware category prize at Surfs Up Hacks 2021, out of over 75 teams developing an app enabling input in Morse code
- Designed a custom input device utilizing **Raspberry PI**, incorporating hardware and software integration to facilitate Morse code communication and implemented WebSockets to enable data exchange between server and front-end application

### Pytype

- Developed an interpreted programming language using **Python** as a project entry for Ctrl+Hack+Del at York University, showcasing a deep understanding of language design and implementation
- Designed and implemented a custom language parser and associated methods, enabling the execution and interaction with the language through a front-end **Flask** terminal, providing a user-friendly demonstration environment

## EXPERIENCE

---

**Nike**, Back of House Associate 2024 - 2025

- Prepared product and stock shipments in a quick and efficient manner within a team environment, ensuring a clean and organized work area in back of house