

Timmy Chen

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EDUCATION

Rutgers University

B.A. Computer Science, B.S. Business Analytics & Information Technology

- GPA: 4.0/4.0

New Brunswick, NJ

Sept. 2021 – May 2025

PROFESSIONAL EXPERIENCE

Intern - Data Scientist

June 2024 – August 2024

Valley Bank

Morristown, NJ

- Utilized Python to conduct feature engineering and implement unsupervised machine learning techniques for the customer segmentation of the bank's commercial clients.
- Employed Python and SQL to query data from a Snowflake warehouse and conduct exploratory data analysis, analyzing key performance indicators such as net interest margin and regional growth.
- Built reports using Power BI to visualize findings and present insights to management, learning optimization techniques for large quantities of data.

Software Engineer Intern

June 2023 – August 2023

CodePod Inc./JupyterPod

Remote

- Developed features for the front-end user interface of a canvas-based code/text editor including font size sliders, auto-hiding toolbars, and styling adjustments using React, Typescript, and Zustand.
- Contributed critical features to a proposed rebuild, such as exporting and importing user data to/from a JSON file for progress persistence and grouping nodes in auto-resizing boxes for organization and multi-selection.
- Learned best practices in collaborative coding and workflow management through experience with Git procedures such as forking, branching, merging, and pull requests.

Lab Assistant

June 2023 – August 2023

Rutgers Algorithmic Robotics & Control Lab

New Brunswick, NJ

- Developed plans for a series of lecture videos detailing robotics fundamentals, consisting of designing the curriculum and writing a program in Python employing the Matplotlib library to simulate the implementation of a path following algorithm for robots.
- Assisted with building a platform in which small robots could be controlled by drawing paths on an interactive camera interface by constructing robot models and soldering circuit boards together.

PROJECTS

Portfolio Website - <https://chimmyten.github.io/Portfolio-Website/> | *HTML, CSS, JavaScript*

- Built and deployed a personal website functioning as a showcase for projects and work.

Flight Reservation Website | *JSP, MySQL*

- Worked with a team to design a database and implemented the search page for a travel website using JSP and MySQL, which queries the database for flights based on desired criteria from the user.
- Developed flight reservation functionality which allows users to buy tickets or be placed on a waitlist and notified when a seat becomes available for full flights.

Android Photo Albums App | *Java, Android Studio*

- Designed and built an Android app with a peer using Java and Android Studio where users can create photo albums and add tags to uploaded pictures, as well as display photos in a gallery slideshow.
- Contributed essential features such as creating, deleting, and renaming albums, searching with auto-completion using photo tags, and serializing user data for persistence when closing and reopening the app.

TECHNICAL SKILLS

Languages: Java, Python, C, HTML/CSS, JavaScript, TypeScript, SQL, DAX

Frameworks/Libraries: React, Bootstrap, pandas, NumPy, Matplotlib, JavaFX, JSP

Tools: Git, Jupyter Notebook, Android Studio, Docker, Snowflake, Power BI, Tableau