

# Timmy Chen

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## EDUCATION

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### Rutgers University

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

New Brunswick, NJ

*Sept. 2021 – May 2025*

- GPA: 4.0/4.0
- Phi Beta Kappa Honor Society
- Relevant Coursework: Software Methodology, Design & Analysis of Computer Algorithms, Principles of Info & Data Management, Introduction to Data Science

## PROFESSIONAL EXPERIENCE

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### 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 manipulating large quantities of data

### Software Engineer Intern

June 2023 - November 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

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### 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

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**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