

Timmy Chen

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EDUCATION

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

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

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

Regional Housing Affordability Analysis | *Excel, MySQL, Tableau*

- Utilized Excel for data cleaning and transformation, creating complex formulas to generate SQL queries, and leveraged MySQL to structure and store datasets from FreddieMac, the US Census Bureau, and Zillow
- Employed Tableau to create interactive visualizations analyzing housing affordability in 2023 Q3, comparing the most and least affordable counties with an article from ATTOM data, revealing significant differences in the results

Fitness Tracker App | *React, Material UI, Flask, MongoDB*

- Developed a full-stack fitness tracker using Flask serving a REST API for the backend, React with Material UI for the frontend, and MongoDB as the database, enabling users to log, edit, and track workouts
- Implemented user authentication/authorization with JSON Web Tokens and bcrypt for password hashing, ensuring secure access to personalized workout data

TECHNICAL SKILLS

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

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

Tools: Excel, PowerPoint, Power BI, Snowflake, MySQL, Tableau, Git, Jupyter Notebook, Docker, MongoDB