

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

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

Android Photo Albums App | *Java, Android Studio*

- 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, Material UI, Flask, pandas, NumPy, Matplotlib, JavaFX, JSP

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