Timmy Chen

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EDUCATION

Rutgers University   New Brunswick, NJ
B.A. Computer Science, B.S. Business Analytics & Information Technology   *Sept. 2021 – May 2025*
- GPA: 4.0/4.0

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.
- Developed reports using Power BI to visualize findings and present insights to management, learning best practices to optimize performance in querying and manipulating large quantities of data.

Software Engineer Intern   June 2023 - August 2023
CodePod Inc./JupyPod   *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*
- Collaborated with a peer to design and build an Android app with 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