**NATHAN SIMON FORTU**

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# EDUCATION

**Rutgers University, School of Arts and Sciences –** New Brunswick, NJ May 2024

*Bachelor of Science in Computer Science* **GPA:3.00****Major:** Computer Science

**Minors**: Critical Intelligence Studies and Mathematics

# PROJECTS

**01:198:336 - Principles of Information and Data Management** September 2023 – December 2023

## Flight Reservations Website

* Collaborated with a team and organized members and produced different webpages of the website.
* Constructed the servers to hold flight, user and admin information in SQL.
* Designed the webpages via the usage of Apache Tomcat servers, which was applied through the usage of Java and HTML.
* Presented the user functionalities of the website, and its admin privileges.

**01:198:213 - Software Methodology** January 2024 – May 2024 *Android Photo Application*

* Developed a robust photo album application for Android, designed to manage photo collections with functionalities to add, view, tag, and remove photos within albums.
* Successfully delivered a fully functional photo album app that efficiently handles photo data, providing a practical solution for organizing and managing digital photo collections.

**01:198:352 - Internet Technology** January 2023 – May 2023

## Reliable Communication over a network

* Developed a method of communication which used UDP sockets, and techniques of reliable delivery with Python.
* Integrated different transmission types such as cumulative-ACK-based selective repeat reliability and stop-and-wait reliability into our code.
* Learned how to apply knowledge of user authentication and evaluated the differences between different communications.
* Cooperated with a partner to introduce pipelined-reliability to our project.

**01:198:416 - Operating Systems Design** September 2023 – December 2023

*User-level Thread Library and Scheduler*

* Conceptualized the implementation of scheduling mechanisms and policies with multi-threaded programming.
* Reconstructed the thread library functions which used the C language.
* Arranged the creation of different schedule functions of Pre-emptive SJF and MLFQ among me and my partner.
* Analyzed the project’s efficiency on benchmarks and it achieved low turnaround and response times.

# SKILLS/INTERESTS

* Microsoft Office
* OBS Studio and DaVinci Resolve
* Piano