Thomas F. Walewski

thomaswalewski5@gmail.com • (203) 913-8647 • Fairfield, CT / Boston, MA
Github: thomaswalewski Website: thomaswalewksi.net LinkedIn: thomaswalewski

Education

NORTHEASTERN UNIVERSITY Boston, MA
Candidate for a BS in Computer Science, Mathematics Minor August 2021 - May 2025
GPA: 3.950/4.00 overall, 4.00/4.00 in CS
Honors: Dean's Scholar, Dean's List Fall 2021, Spring 2022, Fall 2022, Spring 2023
Course-work: Software Development Practicum, Algorithms, Digital Design, Database Design, Computer Systems, Theory of Computation, Object Oriented Design, Matrix Methods for ML, Linear Algebra

Technical Skills

LANGUAGES: Java, SQL, Python, HTML5, C, JavaScript, RISC-V, X86, ACL2s, SystemVerilog, Racket
SOFTWARES: VS Code, IntelliJ, Docker, PyCharm, DataGrip, Eclipse
LIBRARIES: JUnit, ReactJs, ExpressJs, NodeJs, Pandas, MatPlotLib, TensorFlow, Scikit-Learn, Keras

Projects

Study Buddy (JavaScript, MYSQL, ExpressJs, ReactJs, NodeJs) February 2023 - April 2023
- Created software for entrepreneurial students in partnership with D'Amore-McKim School of Business
- Developed back-end using express and node, creating a REST API to send and receive user's information as well as products and companies.
- Implemented front end with React, setting up multiple pages where users only had access to their specific information, restricting users to specific pages based on their session information

Tokenizer and Shell (C) February 2023 - February 2023
- Designed tokenizer to parse user input converting strings into vectors of tokens
- Implemented Shell in C processing the vectors of tokens into commands and executing them
- Built features such as cd, sequencing, input and output redirection, and piping

Brain Hemorrhage Classification (Python, Java) October 2022 - December 2022
- Developed several models to predict presence and type of brain hemorrhage from 6000+ patient CT scans, with aim of cutting down diagnosis time and saving resources
- Achieved a testing accuracy of 69.99% across six different categories using a CNN
- Used Softmax Logistic Regression, Neural Networks, and Convolution Neural Networks
- Wrote program to clean the data filtering usable scans for our models increasing accuracy

Garden Tracking Application (SQL, Python, Flask) November 2022 - December 2022
- Created an application that allows users to track their personal gardens, plants, waterings, and harvests, and also provided functionality for companies to see product data
- Designed SQL Database with 16 tables and 4000 rows of mock data, and integrated a REST API with Flask to provide users with functionality to view garden history as well as log new data

Work Experience

NORTHEASTERN UNIVERSITY Boston, MA
CS3500 (Object Oriented Design) Teaching Assistant May 2023 - Present
- Hosted six hours a week of office hours to help students with issues on homework and concepts
- Held two labs a week where students were walked through important programming concepts and designs
- Assisted in grading 380 student assignments a week