Hsinyen Wu

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EDUCATION

Northeastern University, Boston, MA   2022 - Expected 2025
*MS in **Computer Science***
Relevant Courses: Mobile Application Development, Database Management Systems, Algorithm, Object-Oriented Design

National Taiwan University, Taipei, Taiwan   2019 - 2022
MS in Chemical Oceanography, GPA: 3.9/4.0

National Taiwan University, Taipei, Taiwan   2013 - 2017
BS in Geoscience

TECHNICAL SKILLS

Programming Language:	Python, Java, C
Web Development:	HTML, CSS, JavaScript(ReactJS, NodeJS, Express, jQuery)
Tool & Framework:	Git, Swing, APIs, Bootstrap, Android Studio, REST
Database:	MongoDB, Mongoose, SQL (MySQL, NoSQL)

PROJECTS

Let's Travel Web Application
- Developed a web application for users to explore and contribute travel content, including posts on landmarks and request for information or callbacks
- Enhanced security and user engagement by implementing user authentication, registration processes, admin post management, and user interaction forms
- Utilized NodeJS, Express, and MongoDB to create a robust RESTful API for efficient data management. Leveraged ReactJS and React Router to build dynamic and responsive user interfaces, ensuring a seamless user experience

Shape Photo Album
Northeastern University
- Developed a photo album application in Java with multiple classes with clear APIs as well as a GUI by applying the Model-View-Controller (MVC) architecture
- Wrote Junit tests for each class to test each functionality
- Implemented a user-friendly interface allowing the creation of photos with customizable shapes
- Presented photos in an interactive graphical view and on web page

RESEARCH EXPERIENCES

Marine and Aerosol Trace Metal Biogeochemisty Research   2018 - 2019
- Conducted a 30-day time-series aerosol trace metal dissolution experiment in seawater using lithogenic and anthropogenic size-fractionated aerosols with model ligand siderophore DFB
- Investigated dissolved trace metal distribution in Kuroshio region adjacent to Taiwan from sampling, pretreatment to measurement on HR-ICP-MS

PUBLICATION

Wu, H. Y., Hsieh, C. C., & Ho, T. Y. (2023). Trace metal dissolution kinetics of East Asian size-fractionated aerosols in seawater: The effect of a model siderophore. Marine Chemistry, 254, 104277