

Professional Experience

Leibniz Institute of Freshwater Ecology, Berlin, Germany
Software Engineer Intern

03/2022 – 05/2022

Drove software application design and development delivering functional application for both desktop and mobile platforms.

- Efficiently worked full stack on both UI and backend parts of the mobile application. Gathered requirements, strategized framework and architecture, and cultivated optimal solutions.
- Reduced time to identify various insects by 40% with innovative application completed within seven weeks.
- Conducted user testing, implemented cryptographic security and German locale for the application.

WPI Digitalization Initiative, Worcester, MA
Digital Consultant / Web Developer

09/2021 – 02/2022

Tailored solutions for clients based on digital needs and priorities, executing projects on time and to meet client specifications. Interfaced with clients to identify needs, formulated solutions, and consulted with clients on project progress. Designed and launched websites for clients working full stack with mentors.

- Boosted website traffic for clients by 20% from 800 to more than 1000.
- Effectively transferred databases with more than 10,000 data points to a different platform.

Technical Projects

Feature Recognition from Aerial Images Using Machine Learning – Image Classification Neural Network

- Effectively implemented eight-layered neural network model with deep learning algorithms to format data and train neural network. Developed more than 500 synthetic visual data points with Unreal Engine. *(Python)*

GoataShop – Online Shopping & Trading Website for WPI Students

- Successfully designed and delivered fully functional online application within seven weeks driving designs of UI with React and Bootstrap. Implemented server-side functionalities using NodeJS, connected MongoDB, and executed OAuth and passport.js for account authentication. *(HTML, CSS, JS, React, MongoDB, NodeJS)*

Smart Hospital Assistant Application – Collaboration with Brigham & Women's Hospital

- Led software design processes including the UI and database parts of the program, JavaFX animations, and COVID-screening survey. Gathered software requirements, developed algorithms, and integrated service request modules for the features of the program. *(Java, Oracle, MySQL)*

Technical Proficiencies

Programming Languages & Tools: Java, JavaScript, Python, MongoDB, NodeJS, SQL, HTML, CSS, Python, GitHub, Oracle, MySQL

Education

Bachelor of Science in Computer Science, Minor in Data Science
Worcester Polytechnic Institute, Worcester, MA, 2023
Dean's List, Presidential Scholarship, Graduated with High Distinction