NGOC-THAO LY

SOFTWARE ENGINEER | NYC Metropolitan Area

Github Linked In Email github.com/ngcthao linkedin.com/in/ngcthao thaoly.engineer@gmail.com

EDUCATION

Oregon State University

Bachelor of Science - BS, Computer Science

August (1C Falamany (2

January '23 - Exp. December '24

The City College of New York

Bachelor of Science - BS, Mechanical Engineering

August '16 – February '21 3.32 GPA

PROJECTS

Exercise Log Web Application | Javascript · React · Node · Express

August 2023

4.0 GPA

- · Developed a single-page web application that allows a user to freely register, edit and delete exercise routines
- · Followed MERN stack architecture and implemented a REST API to support CRUD operations
- · Utilized MongoDB for persistence in order to securely save and retrieve logged data during page rendering
- · Implemented React components to create the user interface and allow navigation between pages

Abstract Data Structure Implementations | Python

July 2023 - August 2023

- Tasked with creating personal implementations of abstract data structures (stacks, trees, heaps, hash maps)
- · Studied ADT applications and their structures, identifying necessary functionalities and limitations
- · Designed unit test cases and met desired runtime requirements for all classes and methods
- · Successfully implemented working ADTs and their variations while avoiding the use of built-in structures and methods wherever possible

EXPERIENCE

Exam Prep Tutor | Replications Inc. · Practice Benefit Corp. · Huntington Learning Center June 2022

June 2022 - Current

- Instructed students in the SHSAT, SAT, AP Calculus and AP Physics exams
- · Provided engaging instruction for students and created lesson plans tailored to individual students' needs
- · Participated in regular meetings to discuss student progress and suggest program changes
- · Assisted students in passing common core classes and achieving their desired exam scores

 $\textbf{Mechanical Engineer} \cdot \text{CAD Drafter} \mid \text{MKS Advanced LED}$

September 2021 - May 2022

- · Collaborated with chief engineer, designers, and managers on ongoing and new lighting design projects
- · Created, revised, and edited designs based on product goals, testing results and feedback
- · Maintained communication and worked with outsourced manufacturers and designers to develop products
- Designed working prototypes for multiple company projects and prepared documentation for their patenting

SKILLS

Languages Python · Javascript · HTML · CSS

Framework & Libraries ExpressJS · OpenGL

Other ReactJS · NodeJS · Figma · Selenium · Solidworks