NGOC-THAO LY

SOFTWARE ENGINEER | New York, NY

Github Linked In Email

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EDUCATION

Oregon State University
Bachelor of Science – BS, Computer Science

January 2023 – Exp. December 2024 4.0 GPA

The City College of New York

Bachelor of Science – BS, Mechanical Engineering

August 2016 – February 2021 3.32 GPA

EXPERIENCE

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

- · 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
- · Students' exam scores increased by up to 25% after receiving instruction

Mechanical Engineer · CAD Drafter | 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

PROJECTS

 $\textbf{Exercise Log Web Application} \mid \textbf{Javascript} \cdot \textbf{React} \cdot \textbf{Node} \cdot \textbf{Express}$

August 2023

- 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
- · 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

SKILLS

Languages Framework & Libraries Other $Python \cdot Javascript \cdot HTML \cdot CSS$

 $ExpressJS \cdot OpenGL \\$

ReactJS · NodeJS · Figma · Selenium · Solidworks