SELDON T. TSELUNG (US CITIZEN)

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OBJECTIVE

Highly motivated and detail-oriented software engineer seeking an entry-level position as a front-end or full-stack engineer.

EDUCATION

Certification, Software Engineer, The Grace Hopper Program at Fullstack Academy. 2022
Master of Science, Mechanical Engineering, Rochester Institute of Technology.
Bachelor of Science, Mechanical Engineering, Rochester Institute of Technology.

TECHNICAL SKILLS

HTML5, CSS3, JavaScript, React, Node, Express, TypeScript, Git, GitHub, PostgreSQL, Postman, Firebase, Firestore, MongoDB, CS Fundamentals, Data Structures and Algorithms.

PROJECTS

NASA Launch App (https://github.com/SeldonTselung/NASA-Launch-App) 2023

- An individually developed interactive web application that enables users to schedule a launch to a habitable planet, abort launches and access a history of previous launches.
- To ensure back-end functionality, I built a database using Mongoose and MongoDB. Additionally, I developed a RESTful API using Node, Express, and Axios. Finally, the app was containerized using Docker and deployed using AWS EC2.

Portfolio Site (https://github.com/SeldonTselung/Portfolio) 2023

- An individually created website using HTML and CSS to share my background, experience, technical skills, GitHub activity, LeetCode activity, and contact information.
- To make the site both mobile and web responsive, I utilized interpolation formula in CSS size properties. Images were converted into AVIF files to enhance the user experience and improve page load speed.
- The site was deployed using Google domains and GitHub pages, ensuring broad accessibility for users.

OnlyFoods (https://github.com/2111-Patisserie/2111-OnlyFoods) 2022

- A group-developed social application for food recipes where users can create an account and securely log in. Users can also post, edit, share, and bookmark recipes.
- Following AGILE workflow and development principles, we developed minimum viable product (MVP), designed schema and wireframes using draw.io, and used Git for version control purposes.
- For the front-end, we utilized React Native, along with Expo as the framework. Specifically, I designed and built the "post" and "edit post" components of the application.
- On the back-end, I was responsible for constructing the database using Firestore and implementing authentication using Firebase. I ensured that there was seamless data flow between the user and the application.

The Greenhouse (https://github.com/2111-pellow/The-Green-House) 2022

- A group-developed mock e-commerce web application that features a product catalog, ensures a secured login experience, and maintains persistent user sessions. Users can browse through the catalog, apply filters and sorting options, add items to their cart, view the contents of their cart, and proceed to checkout at their convenience.
- Specifically, I contributed to the design of the layout and pagination of items by using JavaScript and React.
- On the back-end, I used Node, Redux, and PostgreSQL to populate the database and establish relations between users, products and orders, implementing functionality to update the quantity in the database when an item was checked out.

EXPERIENCE

Mechanical Design Engineer Jan 2019 - May 2021
Boyce Technologies Inc. *Long Island City, NY*

- Lead design engineer for the Enhanced Emergency Booth Communication System Project. I designed prototypes, which successfully passed 100% of MTA's physical, thermal, vibration, and sealing specifications on the first attempt.
- Proactively achieved production deliverables through effective communication with all team members, issuing 100+ engineering changes, and producing clear work instructions for machining, assembly and quality departments.
- Successfully led a team for production field test at 6 MTA (Metropolitan Transportation Authority) stations using proper protocols and tools, thorough analyses and team work. Also, mentored a junior engineer and an intern.
- Successfully tested and passed 3000 Spiro Wave Emergency ventilators for FDA approval in 3 months.

Mechanical Design Engineer Apr 2016 - Oct 2018
Amphenol Aerospace *Sidney, NY*

- Led the Next Generation Composite Connectors project by researching, designing, and developing the first prototypes.
- Managed and accelerated the launch of in-flight entertainment Bantam connectors by providing quick engineering support for marketing needs, drawings, and technical solutions.
- Successfully transitioned enhanced anti-decoupling Dualok Connectors from series I to II by issuing 100+ engineering changes that involved design improvements, manufacturing processes and test procedures.