

MALAK KOURANI

FULL STACK SOFTWARE ENGINEER

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Highly motivated and detail oriented Software Engineer with a strong theoretical foundation and practical experience. Seeking an entry level position in a dynamic organization to apply my expertise in JavaScript, Python, React, problem-solving, and project management to contribute to the development of innovative engineering solutions.

TECHNICAL SKILLS • JavaScript • Python • Flask • React • HTML • SQL • ALEMBIC • Postgresql • Postman

RELEVANT SKILLS MATLAB • Ansys • Tableau • Open Markov • Minitab • Catia • Solid works • Grafana • Jira

EDUCATION

UNIVERSITY OF MICHIGAN • Masters in Business Administration • Dearborn, MI	Completed 05/2020
APP ACADEMY • Certification in Full Stack Web Development	Completed 11/2023
UNIVERSITY OF MICHIGAN • Bachelors degree in Mechanical Engineering • Dearborn, MI	Completed 05/2020
UNIVERSITY OF MICHIGAN • Bachelors degree in Biomedical Engineering • Dearborn, MI	Completed 05/2020

EXPERIENCE

Service Engineering and Operations Intern • Ford Motor Company • Dearborn, MI **5/2022 – 8/2022**

- Analyzed large reserves of data which increased the speed and accuracy of software issue detection.
- Implemented and delivered on a dashboard that organized data and created data visuals that provided further insight
- Enhanced anomaly detection by identifying outliers within the data, graphing and tracking patterns within the outlier data

PROJECTS

Full Stack Application:Interact | [Github](#) | [Live](#) *Python • JavaScript • React*

- Designed and developed a full stack application to connect users with products around the world
- Enhanced the application by adding a categories which allows users to directly filter through the products by category
- Allowed users to provide their input on purchased products and the shop purchased from to provide direct feedback to the seller
- Created ease of access by allowing users to mark products or shops as a favorite so that it is within reach for future visits

Full Stack Application:Jenak Eats | [Github](#) | [Live](#) *Python • JavaScript • React*

- Collaborated with a team of 3 individuals to deliver a full stack application using github, react, python, and javascript by deadline.
- Implemented shopping cart feature to allow users to add select menu items through redux state only and AWS for image upload

Full Stack Application:Car Bnb | [Github](#) | [Live](#) *JavaScript • React • Sequelize*

- Developed a full stack application similar to Airbnb but for vehicles CarBnb, using JavaScript and React.
- Implemented select features to allow for an easier and more enhanced user experience
- Implemented github projects to allow for progress tracking ensuring that the application is completed by deadline

Senior Design: Helical MicroSwimmer **01/2020 – 04/2020**

- Conducted simulations of a micro swimmer in fluid. Used Ansys and MATLAB to simulate biological situations.
- Designed a helical microswimmer using CATIA V5 and SCAD to provide an alternative to invasive surgeries.
- Used rapid prototyping to print out the helical microswimmer and created a magnetic field to induce motion.

LEADERSHIP AND HONORS

-Diagnosed and Repaired Vehicle electrical and software issue via Blue Driver software	Dearborn Michigan 2022
-Removed and replaced old vehicle front and passenger seats	Dearborn Michigan 2020
-University of Michigan: University Honors	Dearborn Michigan 2016-2020
-Vice president of the Engineering Club:Held Excel and MATLAB workshops every week	Dearborn Michigan 2018
-Received second place in an engineering competition: designed a robotic arm	Dearborn Michigan 2018
-Designed and built a robotic fish	Dearborn Michigan 2018
-Implemented designed and built prosthetic	
-Experience with rapid prototyping	