

SAAD KURESHI

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I am a full stack developer with a background in mechanical engineering and corporate experience in the manufacturing, oil & gas, and aerospace industries. I enjoy solving problems by writing clean and maintainable code.

Skills

LANGUAGES

Javascript
HTML5
CSS3
Sass
Ruby
SQL
MATLAB
VBA

LIBRARIES/Frameworks

Node.js
Express
React
jQuery
Rails
Bootstrap
AJAX
EJS
WebSockets

DATABASES

PostgreSQL
MongoDB

TESTING & VERSION CONTROL

Git
Cypress
Jest
Storybook

Education

Lighthouse Labs
Diploma, Full Stack Web Development

Nov. 2020 to Feb. 2021

McGill University
Bachelor of Engineering, Mechanical Engineering

Sept. 2013 to May 2019

Projects

Typecraft Game

A typing speed game built using React and Bootstrap on the frontend, and ExpressJS on the backend. The database used is PostgreSQL. The game has live chat functionality between online users using websockets. It uses the Google Maps API to show top user locations on a map, and uses a random text generator API to display sentences for the game in realtime.

Amazon Clone

Front-end of Amazon built using React, with different routes set up using React router. Deployed using Google Firebase.

Jungle Online Store

An online ecommerce store built with Ruby on Rails, using the Model-View-Controller, RESTful design patterns, OOP design principles, and Active Record. SQLite was used as the RDBMS, and user authentication functionality was implemented.

Interview Scheduler

A React based web application that allows users to book/modify/delete appointments with an interviewer of their choice. Storybook was used to create components. Jest and Cypress were used for unit and integration testing. Deployed using Netlify.

Sneaker Store Site

A sneaker store site that allows users to buy different sneakers and send messages to the seller. PostgreSQL was used as the RDBMS with Node.js for the backend. The client-side was created using Javascript, jQuery, EJS, and CSS.

Tweeter App

A single-page Twitter clone that allows users to create and post new tweets. HTML, CSS, JS, jQuery and AJAX used for a responsive frontend design, with Node, Express and MongoDB used for the backend.

TinyApp

A full stack web application built with Node and Express that allows users to shorten long URLs. This application creates and utilizes cookies using cookie-session, as well as password encryption using bcrypt. The frontend was designed using Bootstrap.

Employment

Pratt & Whitney Canada
Global Trade Compliance Operations Analyst

Longueuil, Canada
May 2018 to Oct. 2020

- Transitioned to a full-time position after a successful summer co-op term.
- Automated key business processes using VBA, reducing required analysis time from a weekly average of 5 hours to only 30 minutes.
- Brainstormed and created several different KPIs to help monitor performance in certain areas, and used Microsoft Power BI to create dashboards in order to visualize and report relevant data in a helpful and easy manner.
- Managed the oversight of the P&WC sites in China as the GTC team lead by providing prompt support for compliance matters.
- Managed day-to-day time sensitive export control requests via SAP to ensure smooth business operations and minimize downtime.

CNOOC Petroleum North America ULC
Process Safety Engineering (Co-op)

Calgary, Canada
Jan. 2017 to Dec. 2017

- Assisted engineers in developing and updating process safety procedures as part of a company-wide shift to a new management system.
- Assisted project managers with the automation of KPIs for CNOOC Oil Sands through Spotfire, a data visualization and analytics software.
- Worked one-on-one with an external contractor on a project involving the update of a web-based training course for CNOOC employees and received a focused recognition award for my work.
- Assumed the role of meeting facilitator for bi-weekly PSM team meetings by preparing agendas, recording minutes, and ensuring smooth meetings.

TWI Foods Inc.
Maintenance Engineering Intern

Toronto, Canada
May 2016 to Aug. 2016

- Supported the day-to-day and long-term maintenance activities of the Maintenance and Reliability team.
- Created over 80 preventive maintenance models for equipment on 8 production lines and scheduled their periodic trigger dates by extensively using DIMO Maint, a computerized maintenance management software.
- Reorganized and updated the inventory of equipment spare parts in the machine shop in order to provide readily accessible and accurate information.
- Successfully helped reduce the company's \$500,000 annual maintenance costs by implementing DIMO Maint and creating an efficient maintenance system.