

Kiran Sahmbi

SOFTWARE ENGINEER

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Skills

Web Development	React, Angular, Express, Node, HTML, CSS
Databases	MongoDB, Oracle (PL/SQL)
Programming Language	Javascript, Python, C#, Java,
Tools	GCP, Git, Postman, Jira

Projects

Grab a Table - Fullstack Restaurant Booking App

MONGODB, EXPRESS.JS, REACT.JS, NODE.JS

Sept 2022 - Dec 2022

- A full-stack **MVC** web application that allows users to book restaurant reservations. Designed full customer flow and vendor flow, including a dashboard to track popular days. Scales to multiple restaurants and users.
- Backend:** Designed **NoSQL** database model and implemented **CRUD** using **RESTful** APIs **Node/Express**.
- User Flow:** User can **search** for tables and dates to book reservations; supports **filtering** by max party size, cuisine, hours; implemented **email confirmation** feature upon booking.
- Vendor Flow:** Fully functional **admin panel** to edit, modify, and remove reservations, as well as modify business information such as hours, location.
- Backend:** Developed **realtime dashboard** functionality to aggregate metrics such as most popular dates, high/low season, cancellations (**SQL**).
- Frontend:** Designed front-end framework using **React**, managed API calls with **Axios** to transfer data from back-end, and handled state with **React Hooks**.

ThriftCommerce - A Secondhand Marketplace

MONGODB, EXPRESS.JS, ANGULAR.JS, NODE.JS

May 2022 - Sept 2022

- A **Mobile Friendly** Web Application that allows authenticated users to sell used products. Built using **MVC** pattern. Separate flows for registered and unregistered users.
- Backend:** Designed MongoDB model and **CRUD** using **RESTful** APIs for user profiles, listings, questions tables (**Express, Node, MongoDB**).
- Backend:** Implemented **JWT Auth** for user **registration**, login, logout; secured website by gating user privileges for guests, restricting modifying/creating listings.
- Registered User Flow:** Sell products and determine listing expiration, scheduled online/offline timing; implemented product update flow for users to change descriptions, names, price and other details for each product (**Express, MongoDB, Node**).
- Unregistered User Flow:** Posting questions on any listing; implemented **validation** to allow sole owner of product to answer listing questions.
- Frontend:** Developed public listings page, details page for each product, and questions view for each product; separate admin views for registered users to update their products (**Angular**).

Expense Tracker

.NET, C#, WPF (XAML)

Jan 2022 - May 2022

- Designed and implemented a **C#** desktop application that tracks your expenses using **MVC** architecture.
- Backend:** Created **relational** database model and implemented **CRUD** for backend system.
- Backend:** Implemented data persistent **serialization** via **OOP** principles.
- User Features:** Sorting and filtering by each model field, real-time status bar for each expense, group queries for high level aggregations, and DB model validation for CRUD.
- Frontend:** UI implemented using **XAML**.

Experience

Give and Go Prepared Foods

Toronto, CAN

SUPPORT ENGINEER

Sept 2019 - Sept 2021

- Automated custom report generation for company and department level KPIs, saving >70% of employee time on this task (**Python, SQL**).
- Developed a service to perform **ETL** of daily production data into **BI** tier databases across all departments (**Microsoft Power Apps, SQL**).
- Worked closely with QA process teams to improve **monitoring** and **reporting** of inefficiencies based on time, resulting in the removal of many bottlenecks, reducing downtime by >20%.

Environment Canada

Toronto, CAN

SOFTWARE ENGINEER CO-OP

Sept 2018 - Jan 2019

- In a team of 4, worked with cross-team stakeholders to developed a dashboard monitor to ingest and display instrument data across 26 sites in Canada. Application was deployed to executable (.exe) file to be run at daily intervals (**Python, Matplotlib**).
- Built accompanying service to **track** and **alert** against data abnormalities in ingestion pipeline (missing data, invalid data, incomplete data), improving data integrity by >90%; (**SMTP, Python, Pandas**).

Environment Canada

Toronto, CAN

DATA SCIENTIST CO-OP

Sept 2017 - Apr 2018

- Collaborated with senior data scientists to build a service to automate reporting on greenhouse gas emissions, making workflow >20% more efficient; service also included features such as data flagging, average, and pruning; findings were reported in Canadian National Inventory Report (**Python**).

Education

Centennial College

Toronto, CAN

DIPLOMA, SOFTWARE ENGINEERING

2021 - 2022

University of Waterloo

Waterloo, CAN

BACHELOR'S OF APPLIED SCIENCE, HONOR'S CHEMICAL ENGINEERING

2014 - 2019