

Shabab Khan

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Skills

Languages: Javascript, Typescript, Python, PHP, C, C++, Java, GraphQL, MongoDB, MySQL, MariaDB

Frameworks/Libraries: React, Redux, Next, Gatsby, D3.js, Node, Express, Socket.io, Sci-Kit, Pandas

Tools: Git, CI/CD, Docker, Vercel, Heroku, Netlify, Figma, Adobe Illustrator, Photoshop

General: Linux, Windows, Virtual Machines, LaTeX, HTML, CSS

Work Experience

Full Stack Developer - Freelance (Node, React/Gatsby, Ghost CMS) Jan 2022 – Present

- Developing React/Gatsby based front end for an existing CMS with i18n for 15+ languages
- Re-implemented user management for editing suite used by large multilingual team, reducing monthly operational cost by \$4000

Front End Developer - UBC InfoVis Group (React, D3) Jun 2021 – Aug 2021

- Designed and implemented complex, dynamic data visualizations utilizing React and D3
- Interfaced with stakeholders to understand and build towards their needs
- Performed rewrite/refactor of existing components to improve usability, performance, and standardize software architecture

Full Stack Developer (Co-Op) - UBC Merida Labs (React, Node, Socket.io, MySQL) Jan 2020 – Aug 2020

- Designed and developed a real time operational dashboard for Battery Electric Vehicle charging management in parking garages
- Front end developed using React, Redux, and ReCharts, as well as creating custom visualizations
- Back end developed using Node, Socket.io, and MySQL
- Created detailed documentation using Sphinx and JS Autodoc to assist future developers

Personal Projects

0x73006b.github.io ([Demo](#), [Github](#)) (HTML, CSS) Present

- Personal website to display projects and host their related write ups
- Designed and implemented with speed, low file size, and ease of use in mind

Academic Projects

Data Driven F1 Car Changes Viz ([Demo](#), [Github](#)) (D3.js, HTML, CSS), CS 436V – Info Visualization 2021

- Ideated, designed, and led team of 3 to implement visualizations explaining advancements in Formula 1 cars
- Implemented visualizations using D3.js, HTML, and CSS
- Found and utilized multiple data sets, filtering them to create usable data that fulfilled the project's needs
- Awarded one of the best projects in class, achieved class hall of fame

Muscle Monsters Exercise Network ([Figma A](#), [Figma B](#)) (Figma, A/B Testing), CS 444 – Advanced HCI 2021

- Utilized Figma to design an interface that gamified exercise and motivated people to get in shape during COVID
- Conducted A/B testing to compare a social media UI (A) vs. a streamlined UI (B) that immediately sends users to workouts
- Found that the social media UI was better received; users reported higher levels of social connectedness and satisfaction

Avotecado ([Github](#)) (React, Meteor, MongoDB), CS 455 – Web Development 2019

- Developed a full stack web app that helps Vancouverites track municipal politics and politicians
- Took project manager and lead dev roles, managing issues and questions, as well as leading the programming effort
- Implemented the front end in React and the back end in Meteor and MongoDB
- Resulted in web app which utilized City of Vancouver council voting data to visualize politician patterns

Foodify ([Figma](#)) (Low/Medium/High Fidelity Prototypes, Figma, Illustrator), CS 344 – HCI 2019

- Designed and prototyped a food purchasing interface using Figma and paper prototypes
- Based research using human centered design
- Evaluated prototypes using task walkthroughs
- Performed controlled observations and participant interviews to understand strengths and flaws of UI
- Found that the UI had an overall intuitive workflow, but found areas where signifiers could be added for higher discoverability

Hero Database ([Github](#)) (PHP, MySQL, HTML, CSS), CS 304 – Relational Databases 2018

- Worked in a team of 4 to create a website utilizing PHP and MySQL
- Took role of team lead, addressing questions and other issues that arose
- Implemented the front end in HTML and CSS with Materialize-CSS, and the back end in PHP and a remote MySQL database

Education

Bachelor of Computer Science, University of British Columbia 2021

Bachelor of Arts in Sociology, University of British Columbia 2016