

Shabab Khan

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Skills

Languages: Javascript, Typescript, Python, PHP, C, C++, Java, MongoDB, MySQL, MariaDB
Frameworks/Libraries: React, Redux, Gatsby, D3.js, Node, Express, Socket.io, Sci-Kit, Pandas
Tools: Git, CI/CD, Docker, 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 20+ 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