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| Shabab Khan | [0x73006b.github.io](https://0x73006b.github.io/) // [github.com/0x73006b](https://github.com/0x73006b) [linkedin.com/in/khankshabab](http://linkedin.com/in/khankshabab)  [khan.k.shabab@gmail.com](mailto:khan.k.shabab@gmail.com) |

# 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

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| **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

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| 0x73006b.github.io[**(Demo,**](https://0x73006b.github.io/)[**Github)**](https://github.com/0x73006b/0x73006b.github.io)(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

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| **Data Driven F1 Car Changes Viz** [**(Demo,**](https://0x73006b.github.io/A-Data-Driven-Visualization-of-F1-Car-Changes-over-2000-2020/)[**Github)**](https://github.com/0x73006b/A-Data-Driven-Visualization-of-F1-Car-Changes-over-2000-2020)(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,**](https://www.figma.com/file/Edt3eaT27YKO4OEVuC2DTM/444-Design-A)[**Figma B)**](https://www.figma.com/file/OE26LMmcdAU3h3DbGBag58/444-Design-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)**](https://github.com/0x73006b/avotecado) (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)**](https://www.figma.com/file/HjW3WtLXTDvpdIDMpJxYud/Untitled?node-id=0%3A1) (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)**](https://github.com/0x73006b/Hero-Database)(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

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| **Bachelor of Computer Science**, University of British Columbia | 2021 |
| **Bachelor of Arts in Sociology**, University of British Columbia | 2016 |