

Shabab Khan

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Personal Projects

0x73006b.github.io (HTML, CSS)

Present

- Personal website to display projects
- Designed and implemented with speed, low size, and simplicity of use in mind

Skills

- JavaScript/TypeScript (React/Redux, Node, socket.io, Meteor, D3)
- Python (Jupyter, pandas, scikit learn)
- PHP, Java, C, C++
- SQL/NoSQL Databases
- Git (Github, Bitbucket, Gitlab)
- CI/CD (Github Actions)
- Issue Trackers (Jira)
- Deployment
- LaTeX
- HTML, CSS
- Linux, Windows
- Adobe Suite

Work Experience

Front End Developer, UBC InfoVis Group (React, D3)

Jun 2021 – Aug 2021

- Continued work on “Visicorn” dashboard for UNICORN (Advanced Persistent Threat Detector)
- Performed major refactor of existing components to standardize software architecture
- Implemented new features in a maintainable way using existing contrasting libraries (React, D3)
- Iterated on dashboard using feedback from main stakeholders to improve user experience
- Re-designed a histogram based visualization from static to dynamic interactions

Full Stack Developer (Co-Op), Merida Labs (React, Node, socket.io, MySQL, Sphinx)

Jan 2020 – Aug 2020

- Worked / interned as a full stack developer at Merida Labs
- Designed operational dashboard for EV charging stations, iterating with stakeholder feedback
- Developed the front/back end with a maintainable, understandable structure
- Brought in agile practices to development process
- Created detailed and maintainable docs for future developers, using Sphinx and JS Autodoc

Academic Projects

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

2021

- Ideated, designed and led team in executing visualizations to explain improvements of F1 cars over 2000 to 2020
- Implemented 2 of 3 views and assisted with implementation of last view
- Found and utilized multiple data sets, filtering them to create usable data that fulfilled the project’s needs
- Achieved class Hall of Fame for 2021

avotecado ([Github](#)) (JavaScript, React, Meteor, MongoDB / CS 455 - Web Development)

2019

- Developed a web app that helps Vancouverites track municipal politics and politicians
- Took project manager role on top of lead development role, managing conflicts and questions
- Implemented the front end in React and the back end in Meteor/MongoDB
- Utilized data from City of Vancouver’s website to visualize data and make it understandable

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

2018

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

Foodify (Low/Medium/High Fidelity Prototypes, Figma, Illustrator / CS 344 - HCI)

2019

- Designed and prototyped an interface for food purchases
- Based research around human centered tasks
- Performed controlled observations and participant interviews
- Created prototypes and evaluated them through task walkthroughs

Education

Bachelor of Computer Science, University of British Columbia

2021

Bachelor of Arts in Sociology, University of British Columbia

2016