

Kanishka Verma

Kelowna, BC · Computer Science major

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Experience

Fortinet Inc.

Vancouver, BC

Web Developer Intern

May 2022 - Current

- Worked on the FortiOS team developing and debugging front-end code to write production-ready code using **Angular** and **Angularjs**.
- Adapted legacy **AngularJS** code to **Angular**. The tech stack consisted of **TypeScript**, **JavaScript**, and **Linux**.
- Collaborated and used advanced git workflows with a team of 50 developers.
- Acquired deep knowledge involving networking, firewalls, and network security.

Royal Bank of Canada

Toronto, ON

Full Stack Developer Intern

September 2021 - May 2022

- Engineered an AutoML pipeline from scratch involving imputation, categorical encoding, feature engineering, model selection, and hyperparameter optimization using **Python**, **Apache Spark**, **Apache Openshift**, **Kubernetes**, and **H2O**.
- Sped up the model training and hyperparameter tuning process by 50% achieving better accuracy than manually trained models.
- Adapted to a vendor platform (**Palantir Foundry**) with a lack of documentation within 2 weeks.
- Invented a new way to add support for python libraries in **Palantir Foundry**, allowing for advanced models and increasing efficiency.

University of British Columbia

Kelowna, BC

Research Assistant

January 2021 - May 2021

- Designed and developed a new UI with a team of 4 developers for a website used by university professors to make teams for group projects.
- Improved the usability of the website by advocating for WCAG adherence and applying human-computer interaction principles.
- Utilized the following tech stack: **Django**, **PostgreSQL**, **Docker**, **Redis**.

University of British Columbia

Kelowna, BC

Teaching Assistant

January 2020 - May 2020

- Instructed 2 classes of 20-30 students teaching data structures and algorithm concepts in **Java**.
- Worked in a team of 5 to mark assignments/exams and assist students during classes.

Technical Projects

Capstone Project | Full Stack Project

React, Redux, Node, Django, PostgreSQL, MongoDB, RabbitMQ, S3, Docker, Redis

- Established a firm that involves creating videos using ML models and posting them on a website akin to Youtube.
- Architected a full-stack website powered by **React** and **Redux** on the frontend, and **Node** and **Django** on the backend. **Amazon Web Services** (S3, Amplify) were used for video storage and hosting. Moreover, the project used two databases (**MongoDB**, and **PostgreSQL**). Authentication and security was implemented using **Auth0** and **JWT**.
- Collaborated and coordinated with a client and a team of 4 engineers.

Pokedex | React SPA

<https://pokedexme.vercel.app/>

React, Redux, Rest, Babel, Webpack

- Fetched and displayed data from a **REST API** (<https://pokeapi.co/>) using a frontend powered by **React**, while also integrating **Redux** for global state management and error handling.
- Utilized **Babel** and **Webpack** in the development of the app to support legacy browsers.

Covid.army | Open Source

<https://covid.army>

Next.js, React, Tailwindcss

- Contributed to and helped in the development of covid.army, an open-source website dedicated to providing information on COVID-19 related resources in India which was visited by over 4,000,000 people.

Skills

Languages Python · JavaScript · TypeScript · Java · SQL · R

Technologies React · Angular · Redux · Express · Django · REST · Linux · Git · PostgreSQL · Docker · AWS · Sass · Firebase · Vim

Education

University of British Columbia

Kelowna, BC

B.Sc. Computer Science

Sep 2018 - April 2023

- **91.4% GPA**
- **Awards:** International Major Entrance Scholarship worth \$100,000 · Outstanding International Student Scholarship · Dean's list - all years