Kanishka Verma

Kelowna, BC · Computer Science major

236-457-3876 | kanisverma@gmail.com | https://github.com/kanishkaverma | https://www.linkedin.com/in/kanisverma/

Experience

Fortinet Inc. *Vancouver, BC*
Web Developer Intern *May 2022 - September 2022*
- Improved the stability and performance of FortiOS, fixing over 30 bugs and increasing the speed of the web application by 10%.
- Modernized the codebase by adapting 3,000 lines of legacy **AngularJS** code to **Angular** using **Linux**, **TypeScript**, and **JavaScript**.
- Acquired knowledge in networking, firewalls, and security, including TCP/IP, HTTP, SSL, encryption, and authentication.
- Contributed to the development of a product used by over 10 million users worldwide, demonstrating strong problem-solving skills and the ability to work effectively in a team.

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**.
- Developed and implemented a new method for integrating **python libraries** into **Palantir Foundry**, increasing efficiency by 30%.
- The model outperformed manually trained models by 10% in terms of accuracy and speed and an accuracy of over 95% on test data.
- Contributed to the development of a product used by hundreds of employees, improving their experience and helping to drive business value for the company.

University of British Columbia *Kelowna, BC*
Research Assistant *January 2021 - May 2021*
- Designed and developed a new UI for a team formation tool used by university professors at UBC, resulting in a 50% increase in user satisfaction and a 25% increase in user productivity.
- Collaborated with a team of 4 developers to revamp the UI, utilizing **Django**, **JavaScript**, and **jQuery** with **Docker** and **Redis** for efficient deployment and data management.
- Ensured adherence to strict WCAG guidelines for improved usability and accessibility, enabling the tool to support the needs of over 40 professors at UBC.

Technical Projects

Capstone Project | Full Stack Project

React, Redux, Node, Django, PostgreSQL, MongoDB, RabbitMQ, S3, Docker, Redis
- Established a firm that creates videos using ML models and posts them on a website similar to YouTube.
- Architected a full-stack website using **React** and **Redux** on the frontend and **Node** and **Django** on the backend.
- Utilized **Amazon Web Services** (S3, Amplify) for video storage and hosting, and employed **MongoDB** and **PostgreSQL** as databases.
- Implemented authentication and security using **Auth0** and **JWT**, ensuring the protection of user data and the website's integrity.
- 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 **Redux** for global state management and error handling, resulting in a more stable and user-friendly application.

Covid.army | Open Source *https://covid.army*

Next.js, React, Tailwindcss
- Contributed to the development of an open-source website dedicated to providing information on COVID-19 related resources in India.
- Utilized **Next.js**, **React**, and **Tailwindcss** to build a user-friendly and informative website.
- The website has been visited by over 4,000,000 people, making it a valuable resource for those seeking information on COVID-19 in India.

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 *September 2018 - April 2023*
- **91.4% GPA**
- **Awards**: International Major Entrance Scholarship worth $100,000 · Outstanding International Student Scholarship · Dean's list - all years