Kanishka Verma

KELOWNA, BC · COMPUTER SCIENCE MAJOR AND DATA SCIENCE MINOR

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Skills

Programming	Python · JavaScript · TypeScript · Java · SQL · R
Frameworks/Libraries	React · Redux · Angular · Express · Firebase · Pandas · Django
Other:	Linux · Git · PostgreSQL · Docker · AWS · Sass

Experience

Royal Bank of Canada — *Toronto, ON (Remote)*

MACHINE LEARNING ENGINEER INTERN — *Sep 2021 - April 2022*

- Engineered an AutoML pipeline from scratch involving imputation, categorical encoding, feature engineering, model selection, and hyperparameter optimization.
- Enabled the employees in the company to use the pipeline through a web interface made using Springboot and Angular.
- Used SparkML, Pyspark, Apache Hadoop, H2O, SQL queries, Scikit-learn, Xgboost.

University of British Columbia — *Kelowna BC*

RESEARCH ASSISTANT — *Jan 2021 - May 2021*

- Designed and developed a new UI with a team of developers for a website used by university professors to make teams for group projects.
- Worked with Django, PostgreSQL, Docker, Redis.

University of British Columbia — *Kelowna, BC*

TEACHING ASSISTANT — *Jan 2020 - May 2020*

- Conducted labs for first-year students, with responsibilities ranging from providing support with data structures in Java to correcting assignments and marking examinations.

Education

University of British Columbia — *Kelowna, BC*

B.Sc. COMPUTER SCIENCE AND DATA SCIENCE MINOR — *Sep 2018 - April 2023*

- Dean's List: 91.4% Average

Technical Projects

Summer 2021 Capstone Project | Full Stack Project

REACT, REDUX, NODE, DJANGO, POSTGRESQL, MONGODB, RABBITMQ, S3, DOCKER, REDIS

- Worked with a client and a team of developers to help develop a startup, which involved generating videos from ML models and hosting them on a website similar to YouTube on a lower scale.
- Made a full-stack website powered by React and Redux on the frontend, and Node and Django on the backend. Amazon Services (S3, Amplify) were used for video storage and hosting. Moreover, the project used two databases (MongoDB, PostgreSQL). Authentication and security were implemented using Auth0 and JWT.

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. Finally, utilized Babel and Webpack in the development of the app to support legacy browsers.

Remarrk | Full Stack Project — *https://bit.ly/31uafpE*

REACT, GOOGLE CLOUD SERVICES, NODE.JS, AWS AMPLIFY

- Web app which uses React for the frontend, Express for the backend, and Firebase for database and authentication, while being hosted using AWS Amplify.

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 three million people.

Sentiment-Analysis | Machine learning — *https://bit.ly/303OIDq*

PANDAS, NUMPY, SCIKIT-LEARN

- Implemented several machine learning models using Natural Language Processing (NLP) including Gradient-boost, XGboost, and ADA-boost to classify pieces of text as either positive or negative. The best model had an accuracy of over 92% on test data.

Game AI | Artificial Intelligence Project — *https://bit.ly/3H0iB8H*

JAVA

- Worked with a team to implement a game AI for Game of the Amazons. The game agent used Minimax search with alpha-beta pruning and iterative deepening to find and make the optimal move. The agent was one of the top performers in the class.