Vikas Saini

Software/Web Developer

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EXPERIENCE

ERICSSON (CO-OP) | RF Engineer/Web Developer
Sept 2021 – Dec 2021 | Ottawa, Canada

- → Worked on 5G Project for Florida market, involved in 5G deployment, analysis, and produced KPI (ToNR, Throughput, Latency etc.) reports.
- → Worked in a team environment and gain experience in presenting report in team meeting and that helped improving communication skills.
- → Part of Development team for developing front-end of a website using React, JavaScript and Material UI.
- → Also gain experience in Automation projects using Python as a Co-op student.

CANADIAN TIRE (PART-TIME) |Sales Associate
May 2022 – Current | Ottawa, Canada

- → Helping customers find right product, answering questions related to product and recommending better product based on customer's situation

ACADEMIC PROJECTS

OASIS PRO SIMULATOR | C++, Qt
2022

- → Created a simulator app, write use cases and UML diagram, Sequence diagram, and traceability matrix to ensure product completeness and transparency
- → Functionality includes power on/off, adjust intensity, selecting session type and duration, battery level, connection type, and resume session, record session.
- → Designed an intuitive user interface that closely mirrors the design and functionality of the actual device, allowing users to easily learn how to use it.
- → The simulator also includes advanced customization options and focus on performance and accuracy, to allow users to customize and refine their needs

MOVIE DATABASE WEB APP | Javascript, Express
2021

- → Designed and programmed a web application using JavaScript, Node.js, Pug, Express, and Mongoose, MongoDB which provide movie info to users and allow them to add reviews and comments for movies, like IMDb
- → Used Server and Client side convention to send AJAX requests and updated display content based on the response from Server
- → Implemented CRUD operations for movies by creating queries to MongoDB database, Used session data to recommend similar movies
- → Incorporated principles of restful design, added pagination to display 10 movies per page, created routes using express API

ELECTRONICS STORE APP | Java
2020

- → Created a GUI app using Java language to display electronic products in the store, their prices, inventory, and specifications. Designed UI with HCI principles
- → Categories products using different kinds of Java classes and subclass and applied inheritance and access modifiers to hide details
- → Applied the core principles of Object-Oriented programming and limited the use of global variables according to software engineering conventions.
- → Implemented functionality into simple, single-use and understandable functions.

SKILLS

PROGRAMMING

Proficient:
Python • Java • JavaScript • C C++ • Haskell • HTML • SQL • CSS

Familiar:
Swift • Matlab • Assembly • Go

Environmet:
Windows • MacOS • Linux

LIBRARIES/FRAMEWORKS

React • Qt • Node.js • Django Express • jQuery • Sklearn Pandas • Tensorflow • Numpy Bootstrap • PyTorch • Keras

DATABASES

MySQL • SQLite • MongoDb

TOOLS/PLATFORMS

Git • .NET • Webpack • Heroku Firebase • Kaggle • Docker Google Auth • AWS

EDUCATION

CARLETON UNIVERSITY
Bachelor's in Computer Science
Sept 2019 - Dec 2023 | Ottawa, ON
Honours with AI/ML Stream Entrance Scholarship
Cum. GPA: 10.1 / 12.0

ALGONQUIN COLLEGE
Electro-Mechanical Technician Robotics Diploma
May 2015 - Dec 2016 | Ottawa, ON
Allen Ryan Scholarship Award
Cum. GPA: 3.92 / 4.0

REFERENCES

David Mckenney, Professor, Carleton University
  David Mckenney