KHUSHAL KUMAR SINGH

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SUMMARY

- Professional full-stack Developer with strong analytical & problem-solving skills with over 3 years of experience in all phases of software development life Cycle and technical expertise in OOD and TDD.
- Skilled in NextJS, NodeJS, C#, Python, and JavaScript programming, with a proven ability to build, integrate APIs and open-source projects.
- Demonstrated proficiency in optimizing testing pipelines with white-source scans, streamlining data extraction and verification from databases.
- Exceptional attention to detail and a collaborative problem-solving approach.
- A creative thinker, proficient in software development and working with various data structures and algorithms.

WORK EXPERIENCE

Motorola Solutions Canada – Software Engineer   May 2022 – Jan 2023
- Worked on MDS configurator for VESTA 911 Emergency Call Handling Software to develop an algorithm that reduced data validation time from 50 minutes to 6 minutes (83% enhancement).
- Efficiently inserted, extracted, and modified data from a PostgreSQL database using Python.
- Developed test cases using C# and XML to validate the system before version upgrade deployments.

Motorola Solutions Canada – Software Engineer (Internship)   Jan 2021 – Apr 2022
- Resolved 25+ security vulnerabilities during infrastructure health checks on different labs
- Used Angular.ts and Material library to transform MDS user interface, reducing load time by 80% and improving user-friendliness.
- Implemented automated white-source scans within testing pipelines across 10+ projects on TeamCity platform to ensure compliance of software dependencies with US Federal laws.
- Took charge of scrum meetings in the Scrum master's abscense, ensuring seamless communication and progress towards sprint goals.

Ford Motor Company of Canada – Software Developer (Internship)   Sept 2020–Dec 2020
- Collaborated with ECG team consisting of 26 developers to update user profiles on BlackBerry's QNX infotainment software within ford vehicles.
- Created strategic unit test (UUT) cases for software functionality using C++, leveraging Google Test and Google Mock frameworks to achieve 100% code coverage.
- Documented designs, validated efficacy, and utilized Jenkins to address bugs in 10+ generated software builds.

Carleton University – Web Developer (Internship)   June 2020 – Aug 2020
- Built a Self-Assessment portal (CRUD app) using ReactJS and Bootstrap where 4th-year engineering uploaded and received feedback on their capstone projects.
- Launched a PyMongo-Flask application, using React.js for frontend and Python for backend, with MongoDB as the database; managed the exchange of data between frontend and backend using Axios API.
- Worked on the sWall project – a large interactive wall of screens showcasing history, present activities, and success stories of the SCE Department to 4000 students.
- Wireframed the system through Balsamiq sketches and developed it using Vue.js and CSS Bootstrap.
- Deployed Web-CAT, an automated assignment grading tool, within Docker by integrating Apache Tomcat Server with Java Version 8 and a MySQL database.
- Published textual and video documentation showing the process.

HOBBIES

- Playing football, exploring new travel destinations for hiking, and indulging in leisurely drives

EDUCATION

Carleton University
Graduated: May. 2022
B.S. Computer Science Honours
Concentration: Computer and Internet Security
GPA: 9.81/12

Minor in Mathematics
GPA: 11.75/12

Dean's List Award 2022

S/W METHODOLOGIES

- Agile
- Scrum

LANGUAGES

- JavaScript
- Python
- C++
- C#
- SQL
- Java

FRAMEWORKS/TOOLS

- Node.js
- ReactJS | NextJS
- REST APIs
- JSON
- JIRA
- Jenkins
- Team-city
- Perforce
- Postman
- Docker

EXTRA-CURRICULAR ACTIVITIES

- Executive Co-ordinator of Student Association (CASI)| Carleton University
- Leader of Python Study Group| Carleton University