

KHUSHAL SINGH

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EDUCATION

Carleton University

Ottawa, ON

BCS Honours, Computer and Internet Security Stream, minor in Mathematics

- Major GPA: 9.81/12, Dean's Honour List 2022

TECHNICAL SKILLS

Languages: C++, C, Java, Python, Objective-C, C#, JavaScript, XML, ReactJS, Shell Scripting, JavaScript(SDK)

Technologies: Jenkins, Linux, Perforce, GitHub, TeamCity, JIRA, Docker, QT framework, Postman, Confluence

Databases: MongoDB, MySQL, NoSQL, SQL, PostgreSQL

EMPLOYMENT

IT Consultant

IT Logix

Jan 2023 – Present

- Engineered semantically-structured, responsive, full-stack web applications for clients across SMB industries using ReactJS, NextJS, NodeJS, ExpressJS, Bootstrap, Tailwind and MongoDB, ensuring on-time delivery and adherence to budget constraints
- Conducted 30+ in-depth sessions with clients, eliciting insights into their needs, goals, and pain points; leveraged findings to develop customized solutions that drove a 20% increase in customer retention rates
- Implemented the migration of a critical SQL database to Azure SQL, utilizing Azure Functions to automate data processing tasks. This project ensured high availability, improved scalability, and streamlined data workflows for our cloud-based applications. This resulted in 8% reduction in application loading times and a ~20% decrease in infrastructure costs compared to the on-premises solution

Software Engineer

Motorola Solutions

Jan 2021 – Oct 2022

- 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
- 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 absence, ensuring seamless communication and progress towards sprint goals, and presented updates during biweekly sprint / town hall meetings

Software Infrastructure Developer Co-Op

Ford Canada

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
- Led agile C++ Development, ensuring alignment with project goals and facilitating iterative advancement

Web Developer Co-Op

Carleton University

June 2020 – Aug 2020

- Worked on the [sWall project](#) – a large interactive wall of screens showcasing the 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
- Built a [Self-Assessment portal](#) (CRUD app) 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