

NIHAL RAGHURAJ

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SUMMARY

Software developer with around **4 years of combined experience** in delivering high-quality, scalable solutions, proficient in OOPs, data structures and algorithms as well as designing and implementing RESTful APIs. Thrives working in fast-paced agile environments

SKILLS

- C, Java, Embedded-C, Python, GO, Bash, JavaScript, HTML5, CSS3, Node, MYSQL
- Windows, MacOS, ROS, Linux (Ubuntu), AWS, CI/CD, Cucumber, Unit Testing, OOPs
- Networking: TCP/IP, DNS, UART, RS-232, RS-485, DHCP, DNS, VPN
- ARM (Raspberry pi/NVIDIA), Git and GitHub, Postman, PYQT5, Docker, Django, MongoDB, MERN stack, Microservices, Full-stack, Jira, Asana – *All Professional Proficiency or above*

WORK EXPERIENCE

KONNEXIO INC.

Lead Software Controls Engineer, London, Canada

Nov 2021 – Present

- Automated a greenhouse disease detection robot by implementing Pytorch ML/AI algorithms with an accuracy rate of 85% for a prototype
- Expert in serial communication, authentication and troubleshooting complex networking issues between various modules
- Lead the design and development of a seamless HMI application using PYQT library
- Enriched system metrics by integrating remote access, facilitated in-depth logging by correlating APIs
- CI/CD pipeline integration , Pull requests, code reviews, load/stress testing, Unit/integration and regression testing
- Developed an automation script for PID closed-loop speed control of drive motorsimproving time efficiency by 50%

SAPSOL TECHNOLOGIES INC.

Embedded System Engineer (CO-OP), Mississauga, Canada

May 2021 – Aug 2021

- Enhanced delivery satisfaction by 20% with an autonomous robot delivery system toprocess drive-through style delivery of packages to customers
- Embedded software testing, custom library package development and software version control management
- Analyzed, reviewed, interpreted and processed APIs using postman for a smart locker system to automate parcel lockers thereby increasing efficiency by 25%

VENKAT SWITCH GEARS PVT. LTD**Embedded Software Developer, Bengaluru, India**

Aug 2018 – Aug 2019

- Automated the content management system using TestNG and Cucumber framework thereby improving the customer experience and reducing the number of bugs by 10%
- Reduced service times by designing an issue tracking and revision control system

LOGICHIVE SOLUTIONS PVT. LTD**Embedded Software Developer Intern, India**

Jan 2016 – June 2016

- Facilitated a student workshop on “Embedded systems and robotics” for 250 students and helped assemble a line-following robot

EDUCATION**The Hacking School (Coding Bootcamp)**

Full-stack Web Development

Project 1: Developed a real-time weather application using async await and custom promises from open-weather API

Project 2: Developed a Single-page application (SPA) using React and Redux to allow users to search and book vacation rentals incorporating Google Maps API (location) & Firebase (AUTH)

PG Diploma in Software and Information Systems Testing

Fanshawe College

Project: User testing of e-wheels application (Capstone)

- Setting up Apache tomcat server, bug report and test strategy
- Improving UI experience with application beta testing

PG Diploma in Electronics and Embedded Systems Development

Fanshawe College

Project: Real-time Power Monitoring System (Capstone)

- Real-time updates of power consumed by electronics even in standby mode improving Power efficiency by 22%
- Developed a full-scale multiplayer Tic-tac-toe game with industry-level serial communication between PIC18 and mbed microcontrollers

Bachelor of Engineering in Electronics and Communication

CMR University

Project: Closed-loop control of a 24V DC nano-grid with smart techniques

- Design, development, testing and maintenance of electrical equipment using LabVIEW and Matlab
- Network security fundamentals, data structures and OOPs in C, VLSI system design using Verilog and VHDL