

Umang Shrestha

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TECHNICAL SKILLS Programming: Python Java, Go, Javascript/Typescript, HTML, CSS.
Platform: Linux, Windows, Docker.
Tools: Git, Jira, Jenkins, Selenium, Wireshark.
Frameworks: React, Angular, Django, Robot Framework, Nest Js.
Cloud providers: Microsoft Azure, Heroku.
Protocols: gRPC, GraphQL, Rest, TCP/ UDP, MQTT.

EDUCATION **Master of Engineering Electrical and Computer Engineering Co-op** Jan 2022 - Present
University of Windsor • Windsor, ON

Bachelor of Engineering Biomedical Engineering Sep 2014 - Jun 2018
Rajiv Gandhi Institute of Technology • Bangalore, India
• Internship in IMN Technologies, Trancaal Biomedical, and Bangalore Baptist Hospital.

PROFESSIONAL EXPERIENCE **Coop Intern** Aug 2022 - Present
University of Windsor • Windsor, ON

- Deployed Nest.js powered REST API for tracking of faculty requests and documented the same with Swagger AI.
- Added authentication guards, JWT interceptors with refresh token and API service for Angular.

Software Developer Apr 2019 - Dec 2022
Lifesignals Pvt Ltd • Bangalore, India

- Created scalable simulator capable of running 200+ independent simulations, each dynamically configurable in runtime via REST Api.
- Implemented TLV parser in Golang for serialization of TLV encoded byte array to structs and JSON, and serialization of same.
- Dockerized microservices for registering IoT devices and relaying data from local cluster to central hub.
- Ensured feature quality through unit testing, and debugged, maintained and modified Java based android app used for interacting with IOT devices.
- Created ETL process to analyze logs and visualize trends utilizing Python, Pandas and Plotly.

QA engineer Jul 2018 - Mar 2019
Magal healthcare • Bangalore, India

- Automated e2e testing of android app using Appium, keyword driven test cases in Robot framework, and added pipeline in Jenkins.
- Introduced custom ubuntu ISO with prebuilt dependency and heartbeat script for decreasing deployment time of test beds .

PROJECTS **Interpreter for Programming Language Using Rust,**
<https://github.com/umangshrestha/yet-another-interpreter>

System Monitor and Process Viewer In Golang,
<https://github.com/umangshrestha/system-monitoring>

CERTIFICATIONS **Lean Six Sigma Green Belt,** Institute of Industrial and Systems Engineers Jul 2021

Machine Learning, Coursera, Stanford Online Nov 2018