

UMANG SHRESTHA

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TECHNICAL SKILLS

Languages: Python, Go, Typescript, Bash.

Frameworks: React/Next.js, Django, Nest.js/Express.js, Robot Framework.

Databases: MongoDB, PostgreSQL, MySQL, SQLite.

Platform: Linux, Windows.

Tools: Git, Jira, Jenkins, Selenium, Wireshark, Docker.

Protocols: HTTP, GRPC, GraphQL, MQTT, TCP/IP, UDP.

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

PROFESSIONAL EXPERIENCE

Software Engineer

Apr 2019 - Present

Lifesignals Pvt. Ltd., Bangalore, India

- Implemented socket-based simulator capable of running 100 independent simulations dynamically configurable in runtime.
- Built and dockerized ETL microservices to visualize and analyze logs to draw accurate and reliable conclusions utilizing libraries Pandas, Numpy and Plotly.
- Maintained Android wrapper to relay communication between server to IoT devices leveraging.
- Designed parser for serialization of TLV encoded byte array to C structs and JSON in Golang.

QA Engineer

Jul 2018 - Mar 2019

Magal Healthcare, Bangalore, India

- Introduced custom ubuntu ISO with inbuilt dependencies decreasing deployment time of testbeds.
- Automated e2e UI and REST API testing for android using Selenium and Robot Framework.

INTERNSHIPS

Student Intern

Aug 2022 - Dec 2022

University of Windsor, Windsor, ON

- Developed REST API endpoints leveraging Nest.js and documented OpenAPI spec using Swagger UI.

Research Intern

Jan 2018 - Jun 2018

INM Technologies, Bangalore, India

- Created and assembled a self-driving car in Raspberry PI to track wifi performance parameters when roaming in Mesh Network.

EXTRA-CURRICULAR ACTIVITIES

- Wrote more than 60 articles for 8 publication on tutorial of various framework for medium.com
- Published paper for Synthesis and Characterization of nanoparticles for Transistors in IJAR.
- Internship at Bangalore Baptist Hospital and Transcaal Engineer Pvt. Ltd.

CERTIFICATIONS

Lean Six Sigma Green Belt, Institute of Industrial and Systems Engineers
Machine Learning, Coursera: Stanford Online

Jun 2022
Nov 2018