

SUDHIR KUMAR SINGH

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Actively seeking full time opportunities in Software Development.

EDUCATION

Rochester Institute of Technology

MS Computer Science

Rochester, NY

Aug 2018 - May 2021

Relevant Courses: Advance Cloud Computing | Distributed Systems | Networks | Algorithms | NLP

WORK EXPERIENCE

Bio-Optronics, Inc

Software Engineer Co-op

Rochester, NY

Jan 2020 - Apr 2020

- Developed an internal tool to update custom attributes entries in Pendo.io using their REST API's. (**C#**)
- Addressed higher priority and performance related issues reported by clients for the next product patch release and maintaining the product development support SLA of 21 days. (**C#, MSSQL**)

Department of CS, RIT

Graduate Technical Assistant

Rochester, NY

Jan 2019 - Dec 2019

- Built and deployed a portal to enable CS students to manage their credentials and reduced the workload by **40%**. (**Python, Flask, jQuery, Apache2**)
- Assisted students and faculty members with their day-to-day activity as a System Admin assistant.
- Installed, configured and maintained CS department Labs and servers (i.e. Mail server, Web server).

Philips India Limited

Senior Software Engineer

Bangalore, India

Feb 2015 - Jul 2018

- Developed reliable RESTful API's to enable external and internal clients to exchange patient's medical information using the FHIR and HL7 standards.
- Created a script to automate the product deployment process and saved **10%** of DevOps time. (**Python**)

Sunquest Information Systems Pvt Ltd

Software Engineer

Bangalore, India

Jun 2011 - Feb 2015

- Contributed to the implementation of Distributed Print Server; an application to allow printing of reports on registered network printers across different units of an organization. (**C#**)
- Created Network Interfaces to exchange patient's information using the HL7 standard. (**MUMPS**)

SKILLS

Programming :	Python, Java, C/C++, C, Golang(B), JavaScript, HTML, CSS
Database:	MSSQL, Postgres, MySql, MongoDB
Frameworks & Libs:	React, Node.js, Flask, SQLAlchemy, Spring, NumPy, Pandas
Technologies:	Git, Github, Linux, Docker, AWS

PROJECTS

URL Shortener (React, Python, Flask, Redis, Postgres)

A URL shortening web application developed with microservice architecture for large scale deployment and scalability.

Lunar Rovers (Java, Docker)

A multi-threaded application to replicate a router's functionality to transmit data from source to destination; Implemented RIPv2 protocol and own reliable protocol (similar to TCP/IP) to stream observation data.

Packet Analyzer (Java)

A network packet analyzer tool to extract & display contents of TCP, UDP, ICMP, and IP packets (like Wireshark).

IMDB Database Management (Postgres, React, Node.js)

Built an end-to-end IMDB Database query system with integrity constraints, normalization, indexing and a user friendly interface to query the data.

AWARDS

Best Innovative App (Android)

Won second prize for developing DigitalOPD android app as part of Philips hackathon.

Philips India Limited

Jun 2018

Circle of Excellence'14

Received "Seek It Award" of Circle of Excellence'14 for outstanding performance at global level.

Sunquest Information Systems

Jan 2014