

SUDHIR KUMAR SINGH

Actively seeking full time opportunities in Software Development

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EXPERIENCE

Software Engineer Co-op - Bio-Optronics, Inc

📅 January 2020 – April 2020

📍 Rochester, NY

- 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)

Graduate Technical Assistant - Department of CS, RIT

📅 January 2019 – December 2019

📍 Rochester, NY

- 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).

Senior Software Engineer - Philips India Limited

📅 February 2015 – July 2018

📍 Bangalore, India

- 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)

Software Engineer - Sunquest Information Systems Pvt Ltd

📅 June 2011 – February 2015

📍 Bangalore, India

- 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)

PROJECTS

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.

Classifying similar language varieties (Python)

- Build a model to identify the similarity/dissimilarity of similar languages and language varieties.

EDUCATION

M.S. in Computer Science

Rochester Institute of Technology

📅 August 2018 – May 2021

GPA: 3.42

Relevant Courses

Advance Cloud Computing | Distributed Systems | Networks | NLP | Big Data

SKILLS

Programming

Python Java C# C/C++ Bash
Golang (B) JavaScript HTML CSS

Database

Postgres MySQL MongoDB

Tools

Git GitHub Linux Docker AWS

Framework/Libraries

Flask Django React Node.js
Spring .NET NumPy Pandas

Others

Agile web services microservices

PERSONAL PROJECTS

URL Shortener (React, Python, Flask, Postgres)

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

AWARDS

CS Graduate Assistance

Received 75% scholarship from Computer Science department.

Best Innovative App

Won second prize for developing Digital OPD android app as part of Philips HSDP hackathon.

Circle of Excellence'14

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