

1070 Unit B, West Taylor St, Chicago https://github.com/shauniop	SHAUN SEBI KOLLANNUR	(312) 774-6896 shaunkollannur@gmail.com
EDUCATION		
Chicago, IL	University of Illinois, Chicago	Aug 2021 – May 2023
<ul style="list-style-type: none"> M.S. in Computer Science Graduate Coursework: Artificial Intelligence; Neural Networks; Principles of Concurrent Programming 		
Mumbai, India	University of Mumbai, Mumbai	2014 – 2018
<ul style="list-style-type: none"> Bachelor of Engineering in Computer Engineering, May 2018 Undergraduate Coursework: Human Machine Interaction; Machine Learning; Soft Computing 		
EMPLOYMENT		
Systems Engineer IoT	Site IQ LLC, Chicago	Aug 2022 – Dec 2022
<ul style="list-style-type: none"> Developed drivers for peripheral devices connected to the central IoT Hub Implemented scheduling for processes during the IoT start up Used NodeJS and NestJS to build efficient and scalable server and microservices architecture. Extracted 2-wire and ZModem protocol information from the device connected to the IoT Hub in order to update the current status and diagnosis information on the main server. 		
Software Engineer [Machine Learning Research]	InformDS Technologies Pvt Ltd	June 2018 – July 2021
<ul style="list-style-type: none"> Designed a handwriting recognition model using Convolutional Recurrent Neural Network. Designed and developed a model using Python, to transform data points into DNA pattern strings for clustering similar handwriting models. Modified a multi-algorithm system for identifying objects in template using handwriting recognition and object detection to improve efficiency. Implemented an approximation algorithm to reduce the dimensionality of the handwritten data. Implemented an appropriate segmentation and noise removal technique to improve efficiency of system. Set up and used Apache Spark on Azure for Clinical Data Analytics. Created Literature Surveys for Medical Dashboard to find the strengths and weaknesses in competitor products And also analyzed the requirements of hospitals and doctors. <p><i>Special Project :</i> Developed a system for seamless digital healthcare experience for health facilities, patients and healthcare workers using National Digital Health Mission (NDHM) framework based on FHIR. (Govt. Of India collaborative)</p>		
TECHNICAL EXPERIENCE		
Projects		
<ul style="list-style-type: none"> Safety, Security and Rescue Robot (Python + Embedded C) Implemented algorithms for 3D plotting of the room/area received by ultrasonic sensor. Used traceback in order to return back to the original position. Coded motor movements for grabbing survivors. Smart children safety system in school bus transport using RFID and Android (NodeJS + Java + MondoDB) Smart children safety system in school bus transport using RFID and Android. An app for Parents to track children in case of emergencies. The Demo uses a school bus RFID system but works well in a public network architecture of IOT devices. Project implemented for <i>Mumbai University Grant</i> under Professor Supriya S. Kamoji. Programming Language Design (Scala) Implemented my own programming language which has working Classes, Scopes, Object, Exceptions, Functions, Interfaces and Function Optimizations using Scala. 		
LANGUAGES AND TECHNOLOGIES		
<ul style="list-style-type: none"> Python; Java; C++; SQL; Embedded C; NodeJS; HTML; Scala Firebase; Azure; AWS; Apache Spark; Robotics; Agile Software Development; MondoDB 		