**Shirin Siddiqui**

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**SOFTWARE ENGINEER Level III**

**PROFILE:**

Software Engineer Level – 3 at PayU India, Great in Research and Development ,flexible with different or new programming languages, technologies and platforms, with industry level experience in Web Development on different frameworks and languages. Active participation in Hackathons and technical events on IOT, web and mobile apps, AL, ML, Blockchain and Data Science.

**HIGHLIGHTS:**

**1) Smart India Hackathon 2020 Hardware Category Winner – Lead a Team of 5 members, Won cash price of 1 lakh and incubation opportunities. Published in the newspaper and the following site -**

[**http://www.uniindia.com/sinhgad-institutes-wins-hardware-edition-of-smart-india-hackathon-2020/west/news/2338068.html**](http://www.uniindia.com/sinhgad-institutes-wins-hardware-edition-of-smart-india-hackathon-2020/west/news/2338068.html)

**2) One of Top Hundred Campus Engineers in India ranked by Economic Times after being interviewed with Director of Oracle and several exams and leadership tests. Check this site to know more about it and also find my name in the list -** [**https://economictimes.indiatimes.com/etcampusstars**](https://economictimes.indiatimes.com/etcampusstars)

**3) AI For Social Good Hackathon Winner organized by Ezest, Won 1 lakh cash price and work opportunity at PayU. Published on the following site -**

[**https://blog.e-zest.com/news/megathon-2019-accelerating-the-use-of-ai-for-social-good**](https://blog.e-zest.com/news/megathon-2019-accelerating-the-use-of-ai-for-social-good)

* Won Hackathons on AI and ML and IOT.
* Logic development skills, and a lot of practice in problem solving and debugging.
* Worked on projects on IOT, Blockchain, Robotics, Web Dev.
* Can figure out any new platform quickly and start live development.
* Got nearly 20 projects live in a span of 1 month while working as an intern at payu.
* Achieved YouRock and Thankyou awards with 50k price money for excellent performance at PayU.

**CORE COMPETENCIES:**

|  |  |  |
| --- | --- | --- |
| • PHP | • Database Designing | • Nodejs / React |
| • Compatible with any Coding Language. | • Data Structures & Algorithms | • Blockchain |
| •IOT | • Building Cross Platform Applications | • Microcontroller/Microprocessor |

**TECHNICAL EXPERTISE:**

**Languages:** C, C++, Java, C#, Lua, HTML, CSS, Javascript, React, React Native (Cross platform), Python, Nodejs.   
**Frameworks:** ASP.NET, Codeigniter, Laravel, Express.  
**Database:** MySql, Mongodb, Firebase.

**TECHNICAL EXPERIENCE:**

* Worked at AVON Building solutions as a home automation Intern for 1 month.
* Internship with expertshub for 1 month with best intern award winner trophies.
* Internship at PayU for 6 months as an R and D intern.
* Software Engineer R and D Level -3 at PayU – Current Post.

**EDUCATION:**

* (SPPU) Sinhgad Academy of Engineering - SAE Kondhwa - B.E. in Information Technology, Expected Year of Completion – June 2020.
* (ISC) Hutchings High School & Junior College - 7, Phyare road - 11th and 12th Junior College, Year of Completion – 2016.
* (ICSE) St. Helena’s High School - 8, Susie Sorabji Road - Junior School to High School, Year of Completion – 2014.

**PROJECTS UNDERTAKEN DURING INTERNSHIP / WORK (PAYU):**

**• Worked on the POC of Payments through Sound waves –** As a part of our research dev we worked on making payments through sound waves offline from one phone to other to enable offline payments.

**• Worked on the POC of Payments with voice assistant –** As a part of our research dev we worked on making payments through a voice assistant which would fetch all the pending bills on voice triggered events and ask you which bill would you like to pay and then initiate transaction over those bills.

**• Worked on the POC of Payments over private blockchain using Hyperledger Frabric –** As a part of our research dev we worked on making our payment platform more secure by trying to integrate it over blockchain.

**• Save Debit and Credit card platform for Deloitte –** Made a platform for Deloitte to save bulk and single cards on the payment checkout page for their finance department customers.

**• Group and Individual Loan Repayments for banks –** Providing a platform for the following banks DCB, IDFC, Namra Finance, Arman Finance with a platform to make group and individual payments to pay their due EMI.

**• Integration Pages –** Integration pages for pmcare, lenskart, ola, various universities for making donation during covid.

**PROJECTS UNDERTAKEN DURING ACADEMICS:**

**• Indoor Navigation System using Lifi – Since modern GPS cannot locate you precisely your location inside a room, I worked on the project Lifi where locating a person inside closed spaced would be done over Light, using VLC, LED light bulbs will locate where exactly you are inside a mall or a house or a college exactly and navigate you to your destination.**

• **Database Management System** –As a part of my college mini project, I made a software for PetCare Centers to keep a record of the daily customers and vaccines given to pet.

• **SVS Resort** – As a college project, I made the front end design of a Resort and hosted it for free using firebase.

• **Line following Robot** – Using LSA08 (Advanced Auto Calibrating Line sensor ) with PID (Atmega328p Arduino Uno).

• **Imitating Robot** – Using Potentiometer and servo motor. It had two bodies in which if one body was moved it would take all the values from the potentiometer and store it in an array and pass it to another body which would then map the potentiometer values with the servo motor values and move according to the first body, I implemented collision detection on it as well using ultrasonic sensors.

• **Robocon Theme 2018** – (Team Work) made two robots one automatic and one manual, automatic robot had to take a shuttle and throw it through a 3 meter high and 80 cm wide ring.

**OTHER PROJECTS UNDERTAKEN:**

• **Lifi Data Transmission** – My BE project topic is working with wireless data transfer using Visible light as a medium. I designed a single stage amplifer circuit which would amplify the light signals and receive the data on another device, achieved a baudrate of 9600 and now working on double stage amplifer to achieve the baudrate of 115200 for transferring data serially, transferred text, audio, image , files and video successfully and working on data compression techniques so that data can be quickly transferred between two nodes, using K-Means for image compression as well as Huffman Encoding algorithm of image file.

• **The Eye For the Blind** – This project is focused providing blind people with a lot a platform which can make their daily life a lot more easier, using image text processing and converting it to audio so that they can hear whats written on the boards anywhere, Face recognition for alerting the blind person that the person he is talking to is a stranger or not, navigation for the blind person till he reaches his destination by including maps in it, measuring distance at the tip of the blind stick so that we can measure obstacles on his way or pot holes etc, identifying the distance of a vehicle coming towards him, all this is going to be implemented using raspberrypi.

• **Here Technologies Map API for Electric Vehicles** – The Idea was to provide a platform where electric vehicles will get mobile charging solutions to overcome the ‘Range Anxiety’ that people have regarding electric vehicles. No matter where they are they will always be provided on door charging services. We used Here technologies Map APIs to find a route between two points and suggest the nearest charging station based on the current battery status of the phone left.

• **PC Monitoring System** – Software system written in python to monitor its sleep cycles and idle state conditions number of processes running cpu/diskio utilization to make sure that all the PC’s connected in a lab don’t consume much power and shut down when not in use remotely.

• **Arduino 7-Segment Display Library** – Designed a Common Cathode 7 Segment Display Library Code for Arduino. This library has a function Seg7(int Number) which takes in an integer parameter value and then displays on the segment display to initialize the pins see the pinout diagram and make a parameterized constructor with pin number from a-g and dp. a basic sample code is given in the files reffer to it for confusions.

Make a folder name it as seg7 in C/Users/USER\_NAME/Documents/Arduino/Librarys

Paste the .h and .cpp files in that folder and save it on the path given above open your Arduino IDE and search for the file in the librarys section you will find it there.

• **Blockchain based Decentralized Voting System** – A client-side application that will talk to the smart contract on the blockchain. This client-side application will have a table of candidates that lists each candidate's id, name, and vote count. It will have a form where we can cast a vote for our desired candidate. It also shows the account we're connected to the blockchain with under "your account".The Smart Contract makes sure that each vote is counted, each vote is counted only once and the voter list is updated.

• **Tick Tak Toe** – Wrote an algorithm for tick tak toe game in javascript and front end in html css.

• **Java Games** – Worked on 2D games in java

* Designed Snake game in java
* Super Mario Sprite animation and camera screen drag.
* Flappy Bird
* Hangman(Console based)

• **Home Automation** – As a Project given to me during my last internship, I did home automation using RTI controller and KNX module to link difference home appliances to the home network (LAN) and control it with a phone application also designed by me using Integrated Developer Software provided by RTI.

• **Building Automation** – learnt and used Lua programming to take values from generator and give an daily report on when the generator crossed a certain marked threshold.

• **Lab Automamtion** – Designed a mobile application to control lights and fans of the lab that is provided to us for our technical work in college, using ESP8266 controller(Wifi Module) and firebase and installed it in the controller box of the room, with voice control using adafruit services.

• **Medicare** – The theme of a Hackathon that I participated in was to make a software that would help in the medical sector, I came up with an idea to interconnect a lot of doctors and make a patient profile system which would have all the medical attention he has got since he started using the application on the Cloud.

• **Hangman** – made a console based program, on the game hangman in BlueJ during in 12th project.

• **Android Apps** – made android applications in Android Studio/React Native for Medicare Project, Storing data on an online Database system and did map interfacing, sending Email, calling Application, Notifications.

**ACHIEVEMENTS:**

**• Among Top Hundred Engineers ranked by Economic Times after being interviewed with Director of Oracle and several exams and leadership tests.**

* **Smart India Hackathon 2020 Winner.**

**• Won 1 Lakh as first price winner in Ezest AI / ML Social good Hackathon.**

**• Won 40k in MIT as first price winner Hackathon for Indoor Navigation using Lifi.**

**• Thankyou , 50k rs, and You rock awards from Payu for excellent work in payu.**

• Selected Top 10 in 30 hour Hackathon Organized by Here Technologies and IncubateIND in Mumbai.

• Elected as a Department representative to design a project with an innovative idea for a Company meet funded by our college.

• Came 2nd in a National Level Hackathon Organized by Sinhgad Institutes, and won Cash Price.

• Achieve Best Performers Awardin HackSprint Hackathon Organized by MMCOE.

• Achieved the Best Intern Award at Experts Hub training for IOT.

• Won the runners up award among 20 teams as the Team Captain.

• I am currently the Captain of our Team Cypher which consists of 32 people, we aim to take part in various hackathons all over the year and try to give our best in the themes provided by them.

• Stood 26th at **National Robocon** at Balewadi Stadium.

• INTERNSHIP with AVON building solutions in pune.

• Elite Certificate from IIT Madras for completing NPTEL course online.

•HACKATHON organized by AIT pune (INNERVE) with over 250 colleges participating, got selected among the **top 13** colleges

•Learnt Spanish Classical Guitar for Trinity Board College of London Grade 8.

•Duet Singing Idol Winner of SAE Kondhwa.

•Online Course Certificate for Java from Coursera.

•Won VH1 Music goodies, Selected top 4 singers all over Pune.