

Sharath Narayana

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EDUCATION

North Carolina State University

Masters in Computer Science | May 2021 (expected)

Visvesvaraya Technological University, Bangalore, India.

B.E. Information Science | Jul 2017 | First class with Distinction.

SKILLS

Programming Languages

: Python, C, Unix Shell, C++, ABAP, Java, C#

Web Development and UI Stack

: HTML, JavaScript, CSS, MySQL, OpenSQL, UI Designer

Tools & Technologies

: TensorFlow, NLTK, Apache Storm, Kafka, Nginx, Perforce, Git

Frameworks & Cloud

: NativeScript, Django, Flask, .NET

Operating Systems

: Mac OS, Windows, Linux, Android

PROFESSIONAL EXPERIENCE

SAP LABS, INDIA – ASSOCIATE SOFTWARE DEVELOPER

JUL 2017 – JUL 2019

- Conceived and developed an end-to-end usage-based billing module by integrating with Twilio messaging interface. Implemented using the ABAP-OpenSQL-UI Designer SAP stack. This is added to the global product roadmap.
- Created a software module for GDPR compliance which has been deployed globally, achieving nil customer incidents.
- Implemented innovation idea of converting manual test cases to UI test automates using NLP & ML.
- Prototyped VAT coin, a blockchain idea for the prestigious global event of SAP - TechEd.
- Contributed to a pilot stack shift from ABAP to typescript for internal projects, as a DevOps Engineer.

NATIONAL INSTRUMENTS – SOFTWARE INTERN

JAN 2017 – JUN 2017

- Built web applications to read and write data from multiple modular instruments, enabling data visualization on a single screen using C#, .NET and Visual Studio. The readings were displayed both in analog and digital formats.

ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTIONS – PROJECT TRAINEE

JUL 2016 – OCT 2016

- Established the scope of IOT protocols such as MQTT and CoAP on server management systems like Nginx and JBoss, by rapid prototyping the protocol's usages.
- Profiled Apache Storm and Kafka to evaluate the claim of real time computation.

ZILLION MINDS – INTERN, FULL STACK DEVELOPMENT

SEP 2015 – MAY 2016

- Collaborated with 4 engineers and followed the complete SDLC, starting with need assessment and product design.
- Developed mobile application comprising database design, backend application logic and front-end rendering.

PROJECTS:

AUDIO BASED FACULTY MONITORING SYSTEM

APR 2017

- Led a team of 3 peers and built a Faculty Monitoring System to help schools assess faculty performance.
- Converted faculty speech to text using Google speech API and applied NLP to track coverage of session topics and time spent on each topic. Presented a paper on this topic at RISE 2017 conference and won the best paper award.

HUEBOOK

APR 2016

- Invented Hue book with my classmate to enhance e-book reader's experience. The e-book is tokenized into a jagged array of words and are classified based on emotions. The hue of lighting is changed, and music is played in accordance to emotions portrayed in the eBook, enhancing reader's concentration. A [patent](#) application is filed with IP India.

WEARABLE DISEASE PREDICTION SYSTEM

MAR 2015

- Built a prototype "Wearable Disease Prediction System" by putting together a LM35 temperature sensor and a predictive analysis algorithm using Arduino. The system predicts the disease based on the variation of temperature.

AKSHAYA PATRA FOOD PLANNING APPLICATION

JUN 2014

- Collaborated with a team of 3 participants in Google code for India hackathon and developed a web application to prevent food wastage. The app predicted number of students likely to avail free lunch on next calendar day by looking at historical student attendance records, forthcoming holidays, weather forecast and exam schedules.

RESEARCH & PUBLICATIONS:

- IEEE Xplore [Audio based faculty monitoring system](#) | IEEE Conference ICECDS | Best Paper Award Aug 2017
- IJSR [Public Bus Tracking system](#) | RISE Conference | Best Paper Award Apr 2016
- IEEE Digital Xplore: [Smart learning thro concentration & contextual search](#) | IEEE Conference ICECDS Aug 2017

COMMUNITY SERVICE

- Motivated 200 Indian high school girls for pursuing a CS career to bridge the global gender diversity gap in computing.
- Participated in fund raising initiative of Sankalp - a Non-Profit organisation to help poor & needy for healthcare.
- Visited orphanages and old age homes. Distributed trinkets and shoes to about 100 children and sponsored for food.