Mohammad Nabeel Siddiqui

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Summary

Creative geek with roots in the Internet of Things development, an entrepreneurial mindset and a passion for delivering value by developing maintainable software.

Nabeel Siddiqui is an emerging player in the leading software product development company. His experience includes working as a Research Associate in Department of Computer Science at M.S. Ramaiah Institute of Technology, Bangalore and as a Software Developer at SAP Labs Research and Development Center, Bangalore. Nabeel received his Bachelor of Engineering in Computer Science from M.S. Ramaiah Institute of Technology. As a student in college he worked on projects involving interoperability between software and hardware. During his final year he invented- A system and method to monitor real time predictions in weather conditions using sensor integrated cloud based internet of things (IoT) with a generic web based API (Application Programming Interface). Nabeel is a frequent contributor in various technical conferences. His paper titled ParaSense - A Sensor Integrated Internet of things Prototype for Real Time Monitoring Applications got accepted by IEEE Technical Symposium. He showcased his invention at the finale of a national event ***Innovation Jockey*** *to an audience of vastly experienced professionals and entrepreneurs from all over India. Nabeel was honored with* ***Gold Medal*** *and the title of* ***Application Developer*** *by Association of Computer Science. He also won the* ***Best Project Award*** *in college for his end to end solution for cross platform weather nowcasting application KGSAN. Nabeel belongs to a small town named Allahabad in India. He moved to Bangalore to pursue his career in the field of computer science and his keen interest in Internet of Things motivated him to contribute in Cyber Physical System under the guidance of his guru and mentor Dr.K.G.Srinivasa.*

Experience

SAP Labs India — Bangalore, India

Software Development Engineer II / Technical Lead - Full Stack — Sep '14 – present

- *Currently Working in an IoT Digital Asset team using technologies like Kafka, AWS to build a next gen comprehensive alert mechanism for Oil and Energy Sectors*
- *Research Fellow for SAP Research and Development. Responsibilities include developing a cognitive Machine Learning Solution for automating human work.*
- *Lead a Team of 6 in Technical Capacity for HCM Product. Responsibilities include designing, developing, maintaining, and managing scrum.*
- *Worked on SAP Ui5 Suite Page Builder and CRM Mobile Platform Email Integration*
- *Member of team which developed* ***Auto Release****, the first ever Machine Learning enabled release tool that makes cognitive decision to include or delete a package for a Release cycle. The same has been published in a research paper.*
- *Track Lead for IoT Security Innovation in SAP Labs*

Tech Mahindra — Bangalore, India

Software Development Intern — Jul '13 – Aug '13

Role :- Java Front End Developer
Responsibility :- To build a Support End Portal for DHL Employees using Java,SpringSource Framework and Maven
Status : - Deployed Successfully

M.S. Ramaiah Institute of Technology — Bangalore, India

Research Associate — Jan '14 – July '16

Served as a Research Associate at the M.S. Ramaiah's DRDO's funded Research lab. Invented and patented an engineering principal for measuring real time weather parameters in the field of Internet of Things

M.S. Ramaiah Institute of Technology — Bangalore, India

Guest Lecturer — June '16 – July '16

Presented a talk on my innovation for the M.Tech and B.Tech students

Please refer to my Linked-in profile for a more complete list of work experiences.

Education

M.S. Ramaiah Institute of Technology — Bangalore, India

Bachelor degree in Computer Science & Engineering (GPA: 8.75/10) — 2010 – 2014

Skills

Technical expertise: *Software design and implementation, with(in) a team. Solid knowledge of Internet of Things and have command on useful languages: JAVA, C++, Ui5, Javascript.*

Natural languages: *Hindi* (mother tongue), *English* (full professional proficiency), *Urdu* (limited working proficiency).

Awards & Honors

Best Project Award

Received the Best Project Award at the M S Ramaiah Institute of Technology for showcasing my end to end weather monitoring application.

Best Application Developer

Received the Best Application Developer Award by the Association of Computer Engineers, MSRIT Bangalore.

Best Application

Received the Best Application Award by the SAP's Development University , Germany.

Best UI and Creativity

Received the Best UI and Creativity at the Global Level hackathon, Kickapp Cup organized by SAP, Germany.

Leader in Innovation

Received Leader at Innovation award at SAP Labs India Annual RnR ceremony.

Finalist

Finalist of Yahoo-Accenture Innovation Jockey – Annual National level competition with more than 1500 entries from all over India. Presented my Innovation KGSAN at the National podium

Member, Editorial Board, IGI Global

Editorial Board Member for International Journal of Wireless Networks and Broadband Technologies

Certifications

HP Certification — Allahabad, India

HP Certified Android Developer — Jul '12

Attended Summer training programme in Android Application development organized by Hewlett-Packard, India in association with Indian Institute Of Information Technology, Allahabad. Excelled in the certification test conducted by HP securing 2nd rank in North Zone and A+ Accreditation in the overall programme.

EMC Academic Associate, Information Storage and Management — Bangalore, India

EMC, License TMGW090SMNRESC97 — Feb '14

IBM Certified Associate Developer – for WebSphere Software V6.0 — Bangalore, India

IBM — Oct '13

Projects

Weather Nowcasting Mobile Application by creating Wireless Sensor Network for Real Time Data

General Description

Weather forecasting is a technology used to predict the atmospheric state for a future time for a given location.Weather forecasts are made by collecting quantitative data about the current state of the atmosphere and using scientific understanding of atmospheric processes to project how the atmosphere will evolve. Technology present today by various online applications presents a mere mathematical prediction and is not as accurate as needed by applications that need the real time statistics where the timeframe will be nearly zero seconds. Using high end sensors like MTS400 we have developed application that provides Real time data of a particular location

SYT (SaveYourTime)

General Description

This app is all about saving your time . We have created an application to know the live status of traffic at foodcourt of SAP Bangalore location. The main aim is to let people make informed decision at a particular time in choosing a foodcourt. This will save your time as you will know in advance which food court has the availability for you and your friends. The app will have the option to let you know which food is available in which food court if suppose you are interested in one main course special dish. The App gives you the option of booking a table if there is a Team Lunch. We are providing a weekly graphical analysis which will predict the best time to eat at a particular foodcourt based on historic data

HooP

General Description

HooP is the confluence of Hope and Prosperity. The App is designed and developed keeping in mind the socially challenged kids and gamifying the process of engaging them in a sports activity. This App will motivate the children to participate in games and in turn would inculcate an environment of team building activities. As a talent hunt platform this application would serve the purpose of pitching extraordinary talented kids to leaders in the industry.

CodeBlue

General Description

CodeBlue(IOT Healthcare Solution). CodeBlue is a wireless infrastructure intended to provide common protocol and software framework in a disaster response scenario, allowing wireless monitoring and tracking of patients and first responders.

Mapzo

General Description

An Application designed for Indian Markets which aggregates all types of deals/products/wellness centers/ personalized shopping experience, Happy Hours for Foods, Shopping Siri

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Publications

ParaSense – A Sensor Integrated Cloud Based Internet of Things Prototype for Real Time Monitoring Applications — India

Author, International Conference, Published by : IEEE Region 10 — May '14

Wireless Sensor Networks (WSNs) have become an integral part of weather monitoring applications in a wide range of domains such as environmental monitoring, health-care, asset monitoring modern warfare scenarios, industrial and production monitoring. The available applications provide services to these domains on an hourly basis and are highly accurate. With the exploration and advancement in the field of Internet of Things (IoT), the focal point has shifted towards the interoperability of WSNs and a cloud based central data repository which collaborates and comprehends a uniquely identifiable internet like structure. This bottom up internet-like structure has paved the way for a Sensor Integrated Cloud based architecture PARASENSE. This paper provides a detailed run down on the PARASENSE architecture which integrates WSN with Internet of Things. Using the PARASENSE architecture, a set of real time applications can be deployed, some of them are illustrated in this paper

Microsense: Sensor Framework for IoT System-on-Chip — US

Author, International Journal, Handheld Computing Research, Published by: IGI Global — Dec '16

With the advancement of portable devices and sensors, there has been a need to build a universal framework, which can serve as a nodal point to aggregate data from different kinds of devices and sensors. We propose a unified framework that will provide a robust set of guidelines for sensors with varied degree of complexities connected to common set of System-on-Chip (SoC). These will help to monitor, control and visualize real time data coming from different type of sensors connected to these SoCs. We have defined a set of APIs, which will help the sensors to register with the server. These APIs will be the standard to which the sensors will comply while streaming data when connected to the client platforms.

Cyber Physical System- A book on Internet of Things — US

Co-Author, Technical Book, Published by: IGI Global — Dec '14

Co Authored Chapters on Sensor Networks and Smart System Design. My innovation was cited as the motivating example in the field of wireless sensing

NoSQL: Database for Storage and Retrieval of Data in Cloud — US

Co-Author, Technical Book, Published by: Chapman and Hall/CRC Press — Sept '16

Co-Authored NoSQL chapters including databases like MongoDB, PostgreSQL

NoSQL, Cloud Agile Assimilation: A Decision Guidance Handbook — Germany

Co-Author, Technical Book, Published by: LAP LAMBERT — 12 Jan '17

Web 2.0 companies banking giants like J.P. Morgan, Goldman Sachs and Morgan Stanley are facing issues in managing intense volume of data. Organisations are trying to migrate from traditional to more efficient flexible solutions like NoSQL Cloud computing. NoSQL solves the rudimentary challenge of storage retrieval of high-volume transactional real time data Cloud computing complements the prior with high on-demand network access to a shared pool of computing resources. Despite the ideal characteristics of NoSQL data stores as cloud data management systems computing competence of shared access, it is difficult to comprehend an ideal domain specific architecture due to the high diversity of these solutions. The handbook reviews the paradigm of NoSQL Data Storage, Cloud Computing Agile Development. Its goal is to leverage guidance to researchers and practitioners, helping them select the best-fit data store, identifying challenges opportunities of the trending assimilated paradigm.

Comparison Study of Different NoSQL and Cloud Paradigm for Better Data Storage Technology US
Co-Author, Technical Book, Published by: IGI Global May '18
Co Authored Chapters on NoSQL Databases.

Patents

A system and method to monitor real time predictions in weather conditions using sensor integrated cloud based internet of things (IoT) with a generic web based API (Application Programming Interface) India
Indian Patent, 2271/CHE/2014 May '14
The present invention discloses an automated system and method to monitor ontological real time predictions in weather conditions using sensor integrated cloud based internet of things (IoT) with a generic web based API (Application Programming Interface). The system (100) comprises of a X-mesh networking stack layer (105) which includes a wireless MICAZ motes for gathering and transmitting of ontological real time prediction weather data of each topology to a WSN (wireless sensor network) Ethernet gateway layer (104). The WSN (wireless sensor network) Ethernet gateway layer (104) relays real time prediction weather data to the centralized management layer (103). The centralized management layer (103) provides MOTE-view to user about weather data. A cloud data repository layer (101) includes a data base and an API (application program interface), which is configured to acquire and structure the live feed of real time prediction weather data of each topology from the centralized management layer (103).

Improved taxation control using Cloud Solutions US
us 15/724,273 May '14
A computing system to provide centralized taxation evaluation, comprising: at least one processor; and one or more memory devices communicative with the at least one processor, wherein the one or more memory devices store instructions to: provide a web interface application to provide taxation information from a centralized taxation system, wherein the centralized taxation system comprises: a request inbound queue module to receive a request to determine the taxation information of a user corresponding to a time interval; a data aggregator to automatically obtain baseline data corresponding to the taxation information from a plurality of sources associated with the time interval and carried forward taxation information; and a taxation information determiner to determine the taxation information including at least one of liability owed by the user and refund owed to the user based on the obtained baseline data, carried forward taxation information and corresponding taxation rules.

Interests

Not in a particular order: *innovation, music, open source, philosophy, software engineering, travel, writing, swimming, water polo*