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# Suman K Boro

Bangalore, India

(+91) 72047 25865

[skboro@gmail.com](mailto:skboro@gmail.com)

<https://linkedin.com/in/skboro>

<https://github.com/skboro>

## SKILLS

C/C++, Python, GoLang, Java, Microservices, Algorithms, Data Structures, System Design & Architecture, Distributed Systems, SQL, NoSQL, AWS.

## EXPERIENCE

### **IQLECT, Bangalore** - *Member of Technical Staff*

December 2016 - April 2020

Real-time converged streaming data analytics platform with inbuilt AI/ML capabilities.

- Made the [BangDB](#) platform **timezone aware**.
- Made it possible to **ingest past data** seamlessly in a real-time streaming only BangDB platform without affecting the existing product.
- Developed mechanism to **archive (real-time transfer) streaming past data** from BangDB to remote SQL stores thereby enabling complex long-term analysis and Machine Learning model building. Solved the problem of BangDB buffer pool exhaustion with this.
- Built **Notification Manager** for the platform which solved the problem of notifying users for set triggers on various streaming data through multiple channels. Customizable triggers, endpoints, snoozing capability, support for user comments on the issues and combining similar triggers added a rich user experience.
- **Integrated with E-Commerce platforms** like Shopify, Google Adwords, Facebook Marketing etc. for real-time data ingestion and actions, thereby reducing the time for insights generation from typically a day to seconds.
- **Increased order conversion rates** for E-Commerce websites by tracking user behavior and deciding in real-time about giving incentives. This was made possible by a **Machine Learning model** predicting the propensity of purchase by a user.
- Built **agent for data collection** from various sources – tailing log files, listening on network ports, polling several data sources using SNMP and Python. Was able to ingest 1 TB/day by monitoring a datacenter.
- Developed **Java and Python clients** for BangDB.

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## VMware, Bangalore - *Member of Technical Staff*

January 2015 - December 2016

Cloud Identity and Directory Services team.

- **Single Sign-On** client libraries for C++ and Java.
- Developed a **cross-platform registry editing application** (Windows and Likewise).
- Worked on **Identity Manager** and **Lookup Service** (SOAP based web service which serves as the single point of endpoint search API for LDAP database).
- Solved several bugs, customer issues and escalations.

## NetApp, Bangalore - *Member of Technical Staff*

August 2011 - May 2014

Part of the Platform Software Team – enable NetApp's ONTAP to run on a new hardware.

- Delivered a **new range of NetApp's derivative platform** family line. Derivative platforms are enhancements to the previous generation of platforms, with time-to-market as the major criteria. Responsibilities included making software changes in the platform component drivers (memory, PCI, chipset, environmental etc).
- Worked on a **memory management module** which analyses if the arrangement of the DIMMs gives the best performance for a particular platform.
- Worked in a team to develop a **diagnostics tool** to keep the user updated about the present health of the hardware.
- **Sysconfig information collector** for deployed platforms to have snapshot overview status of the system periodically or at the time of system panics.

## EDUCATION

### Indian Institute of Technology, Kharagpur

B. Tech in Computer Science

2007 - 2011