

# Kushal Kumar

SOFTWARE ARCHITECT | ENGINEERING MANAGER | PRINCIPAL CLOUD DEVELOPER

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"Work is worship."

## Summary

Technology Agnostic Software Leader, Strategist, Architect, Tech Evangelist, Agile Practitioner, with hands on experience in software development (both front end and back end technologies). 10+ years experience specializing in the backend development, front end development, infrastructure automation, and IoT. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

## Work Experience

### Emerson | Paradigm Solution

Brisbane, Australia

PRINCIPAL CLOUD DEVELOPER

Nov. 2019 - Till Date

- Cloud first approach, laid out other cloud strategies for the organization, next gen tracing, logging and monitoring tools and other added analytics capabilities
- Built fully automated CI/CD pipelines using the existing systems in place
- Designed an overall architecture and pipelines for the next gen app capabilities
- Legacy to cloud
- Started automated testing practices
- Open Source contributions for OSDU (open subsurface data universe)
- Vendor Team Managements, Design, Architecture and Code Reviews
- Quick preview of the app - geolog-osdu-integration

### PCCW Global

Brisbane, Australia

SENIOR SOFTWARE ENGINEER - MANAGERIAL LEVEL

Aug. 2019 - Oct. 2019

- Tech and People Management - leading a team 10
- User Experience Management
- Building internal and client facing web applications for port management, focusing on high-availability, fault tolerance, and auto-scaling.
- Started TDD approach
- Developed an easy-to-use Payment for payments, a self service module, with all integrated test, to enable easy service activation, a sort of robotic process automation

### Walmart Labs

Bangalore, India

SENIOR ENGINEER | ARCHITECT | ASSOCIATE MANAGER

Jan. 2015 - Jun. 2019

- Code, Design and Architectural reviews
- Build scalable applications (internal application for retail link using Microsoft Technologies and other necessary tech)
- Build and Manage Data Pipelines - (Azure data factory, SQL, Kafka, Azure Bus, Oozie, SSIS)
- Automated Tests, Support and documentation
- Tech Modernization - re usable components and libraries, server less apps, dockerize apps, Legacy to Next Gen cloud, traditional web apps to spas using react or angular
- Participate in Agile Ceremonies
- Manage a team of 20 and collaborate with various other stakeholders
- Help cross functional teams, technically and in hiring operations
- Organize team outings

### G.E

Bangalore, India

JUNIOR .NET DEVELOPER

Sep. 2014 - Jan. 2015

- Developed internal Tools for GE Capital
- Feature Enhancements - Continuous Delivery, ALM Fixes - Developing POC to prove the capabilities of latest technologies Technology Used: Microsoft Technologie

## Siemens.

Bangalore, India

SENIOR SYSTEMS ENGINEER

Apr. 2012 - Sep. 2014

- Develop applications for Siemens healthcare , industry and Infrastructure business
- Intervene on the entire project lifecycle: review and understanding of business requirements, technical design, development, testing, implementation and maintenance
- Develop server-side components and web services, client-side user interfaces (ASP.Net /Node JS/ HTML 5 -CSS3 , JS , Angular JS etc), as well as SQL databases, Store procedures, functions ,triggers according to specifications
- Document, support end users by providing manuals and assistance tools
- Stay up-to-date with technology and seek to be a well-certified professional according to Microsoft official certification tracks
- Apply various design patterns while creating standard reusable templates across various software applications

## NIC - Govt of India

Bangalore , India

PROGRAMMER

Jul. 2011 - Apr. 2012

- Saved thousands of rupees by researching and implementing paperless office , cost-saving initiatives and creating fresh new approaches to long-standing problems
- Introduced bio-metrics and saved a lot of money for the govt , technological approach to remove fraudulent monetary grants

## Awards & Patents

### AWARDS

- |      |  |                 |
|------|--|-----------------|
| 2015 | <b>Finalist and Winners , also in (2016)</b> , Hackathons at Walmart   | U.S.A and India |
| 2015 | <b>Exceeded Expectation , till 2018</b> , Walmart Internal Employee Review - Got promoted twice in 4 years and multiple hikes and salary revisions | Bangalore       |

### PATENTS

- |      |                                       |    |
|------|---------------------------------------|----|
| 2019 | <b>Targeted advertisement system,</b> | US |
| 2017 | <b>Automated Resume Screening,</b>    | US |

## Presentation

### Shaping careers in IT hosted by ATME College of Engineering

Brisbane, Australia and India

PRESENTER FOR <CAREER OPPORTUNITIES FOR A COMPUTER SCIENCE GRADUATE>

Aug. 2020

- Explained various career options for young engineers , in the field of computer science

### Emerson Internal Event

Brisbane, Australia

PRESENTER FOR <MICRO FRONT ENDS AND PRIVATE NPM>

Nov. 2019

- Introduced the history of web technology , micro services and explained the benefits and overheads of Micro front ends

### Walmart Internal Event

Bangalore, India

PRESENTER FOR <IoT IN RETAILS>

Jul. 2017

- Explained possible use cases of IoT in retail using arduino and raspberry-pi

## Other Achievements and Activities

Jan. 2011 - PRESENT

- Minimized corruption , paperless office - when deployed as a programmer at federal govt departments
- Process work flow automation, reducing a lot of effort/ Manpower at Siemens and received a lot of appreciation from the management.
- Centre of excellence within 6 months of Joining at Walmart
- Key member for hiring , helped many teams scale , we scaled our team from 10 to 106
- Mentor and Innovator , helped many cross functional teams across organizations
- Key member in exploring new tech and learning strategy , was in charge of exploring and recommending udemy , plural sight and other learning development platforms for organizations

## Education

### Birla Institute of Technology and Science, Pilani

India

MASTER OF TECHNOLOGY IN SOFTWARE SYSTEMS

Jun. 2013 - Jun. 2015

- Final year project - e-PHR for Walmart

### BTLIT - vishweshwaraiah technological university

Bangalore, India

BACHELORS OF ENGINEERING IN INFORMATION SCIENCE

Jun. 2007 - Jun. 2011

- Final year project - mobile cloud computing

# Hands on experience

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## FRONT END

- HTML5 , Javascript , react , react native , angular ,jquery
- gulp , bower , npm
- bootstrap , material-ui
- D3 , plotly , leaflet , cypress

## BACK END

- Dockers and K8s
- C#,.NET, and .NET Core , ASP.NET MVC, WEB API , SSRS/SSIS/SSDT , EF and N-Hibernates , Azure and Most of the Microsoft Tech Stack
- Node Js , express
- Python , Tornado
- Distributed Systems and Big Data Systems - Kafka , Hive
- R-Pi, Arduino, IoT , MQTT