

NAVEEN RAI

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EXPERIENCE

DT One

Oct 2019 - Present

Senior Software Engineer

Dubai

- Working as a backend engineer with a focus on APIs, designing event-driven systems and microservices to allow cross-border mobile top-ups, bill payments and other value-added services.
- Designing middleware (USSD/SMS channels) written in Perl's framework and customised solutions (promotion campaigns, monthly reconciliation) for DT One's mobile top-up services and provide L3 support.
- Develop and handle the B2B / B2B2C integration of existing and new customers to DT One's various platforms and integrate to theirs primarily via REST / SOAP APIs.
- Lead the efforts to ensure code quality and reduce bugs on production. Practise code reviews, TDD & BDD, mentor new hires, peer programming and be involved throughout the SDLC alongside proactively analysing existing deployed code and design to make recommendations and improve the platform.
- Provide pre-sale technical assistance, work closely with the Product team, and collaborate with internal/external stakeholders.
- Be the point of contact for developer raised issues and conduct interviews for the APAC and EMEA Solutions Delivery team.
- Tech stack - Perl, Python, Postgres, Dancer, Redis, Jenkins, GitLab, Sqitch, AWS, DataDog, Grafana

Energy Research Institute @ NTU

Apr 2018 – Sep 2019

Research Engineer

Singapore

- Worked on Energy / Building Management System with an emphasis on protocols such as BACnet, OPC-UA, Modbus, LoRa and TV White Space, under the Industrial IoT umbrella.
- Decreased the time invested to poll 500+ datapoints from 2+ minutes to 25-30 seconds by redesigning the data extraction system using C instead of Python.
- Developed applications on development boards (Beaglebone / Raspberry Pi), containerising using Docker and deploying on remote sites via Singtel's M2M cellular network and managed multiple projects.
- Tech stack - C, Python, Golang, Java (Spring Boot), SQLite, Flask, Docker.

TUV SUD PSB

Sep 2017 – Mar 2018

Associate Engineer

Singapore

- Developed a utility for autonomous vehicles using Pybars which involved precise mapping of the road network from open street map format to RD5 which was then imported into CarMaker, an AV simulation software.
- Created a solution to perform end-to-end communication between SUMO and CarMaker via TCP/IP Socket based Client-Server Architecture.
- Tech stack - Python, C++, MySQL.

EDUCATION

Nanyang Technological University – Singapore

June 2017

Master of Science in Communications Engineering; CGPA 3.75/5.0

VIT University – Vellore, India

May 2016

Bachelor of Technology in Electronics and Communications Engineering; CGPA 8.73/10.0

SKILLS

Languages: Perl, JavaScript, HTML/CSS, Java, Python, Golang, C

Frameworks: Bootstrap, jQuery, React, Node.JS, Express, Flask, Plack, Dancer, Spring, Postman, SOAPUI

Database: MySQL, SQLite, Postgres, MongoDB

DevOps: Git, Jenkins, Docker, Kubernetes, Heroku

Cloud: AWS (Elastic Beanstalk, EC2, DynamoDB, RDS, IAM, API GW, Lambda, Route53, CloudWatch, EventBridge, S3, SQS, RabbitMQ)