NAVEEN RAI

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EXPERIENCE

DT One   *Oct 2019 - Present*
Solutions Delivery Engineer   *Singapore*
- A customer facing role involving developing APIs, designing user experience flow (P2P channels) and customised solutions (promotion campaigns) for DT One's mobile top-up services with multiple deployments in a day.
- Develop and handle the B2B / B2B2C integration of existing and new customers to DT One's various platforms and also integrate to theirs primarily via REST / SOAP APIs.
- Practise code reviews, 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, collaborate with internal/external stakeholders and manage projects until the hard launch.
- Be the point of contact for developer raised issues and conduct interviews for the APAC Solutions Delivery team.
- Tech stack - Perl, Postgres, Plack, Jenkins, Git, Sqitch.

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.
- Conducted performance analysis and closely monitored state-of-the-art developments in academia and industry involving technologies such as ZigBee, WLAN, Wi-Fi, Bluetooth, etc.
- Tech stack - C, Python, Go, 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, C, Python, JS, HTML/CSS, Java,
Frameworks: Bootstrap, jQuery, React, Node.JS, Express, Flask, Plack, Dancer, Spring
SQL: MySQL, SQLite, Postgres
NoSQL: MongoDB, Redis
CI/CD: Git, Jenkins
Cloud: Heroku