

VIVEK PRAJAPATI

Senior Software Engineer

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Linkedin

EXPERIENCE

Senior Software Engineer

Dexian

June 2023 – Ongoing

Chennai

- Designed Proof of Concepts (POCs), contributing to the problem logic, building backend, writing APIs, frontend design, and cloud deployment using CI/CD pipeline. Collaborated with cross functional teams, and documented processes.
- Contributed to Post Quantum Cryptography (PQC) advancements by simulating QRNG circuits and implementing quantum algorithms using Qiskit.
- Built an internal authentication mechanism for all the POCs using OneLogin (IdP).
- Developed and managed code libraries, ensuring the production of reusable and efficient code.
- Contributed to sprint planning, prioritizing backlogs to meet new demands.

Research Scholar

IIT Madras

June 2021 – June 2022

Chennai

- Done research and implementation in 5G technology, specializing in Open RAN concepts.
- Designed and implemented logic for an xApp, focusing on RAN slice allocation, management, and control to ensure SLA between Users and Providers. Also, simulated a 5G environment within the system.
- Designed presentations summarising research findings and demos.
- Successfully worked within research deadlines set by Professor.

PROJECTS

IoT Planting: Watering System for Elderly

Government College of Engineering

June 2019 - May 2020

- Implemented the IoT system using different devices. (DC motors, sensors, WiFi module, Arduino UNO, etc.)
- The system is then connected via Blynk Application that monitors the system based on the input taken from sensor using UNO.

5G: Radio Access Network(RAN) Slicing SLA Assurance for Open-RAN

IIT Madras

June 2022 - June 2023

- Developing an xApp in near RT-RIC that allocates, handles and controls RAN slices, also ensuring SLA (Service Level Agreement) between User and Provider.

ACHIEVEMENTS

- National Science Olympiad Class IX - School Rank - 6 City Rank - 96 State Rank - 181.
- National Science Olympiad Class X - School Rank - 1 (Gold Medal) City Rank - 292 State Rank - 659.
- Secured all India rank 426 in 'GATE Computer Science 2021'.

SKILLS

C/C++	CUDA	Python	OpenSSL
SAML	Linux	Docker	Streamlit
FastAPI	Postman	Azure	Github
Github Actions	Terraform	Qiskit	
Agile	Ghidra	Pwntools	srsRAN
SDRAN	OpenRAN	Machine Learning(NLP)	

LANGUAGES

English	●●●●●
Hindi	●●●●●
Marathi	●●●●●

EDUCATION

M.tech Computer Science

IIT Madras

June 2021 – June 2023

B.tech Computer Science

Government College of Engineering

June 2016 – June 2020

XIIth Electronics

Guru Nanak Junior College

June 2014 – June 2016

Xth General

Khubchand Bajaj Central Public School

June 2014