Pankaj

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EXPERIENCE

04/2023 – 03/2024

Frontend Developer

FlyyX Technologies Pvt. Ltd, Bangalore, India

- Developed and maintained highly responsive web applications using **React.js** and **Next.js**, ensuring optimal **UI/UX performance** .
- Built interactive dashboards integrating multiple datasets, enhancing **system monitoring** and **data visualization**.
- Collaborated with backed teams to implement **REST API-based data management** systems.
- Maintained and debugged legacy systems developed in **Vue** and **jQuery**, ensuring smooth integration with modern tech stacks.

06/2022 – 03/2023

React Developer

Promatics Technologies, Ludhiana, India

- Designed **REST API-integrated interfaces**, centralizing test data.
- Created reusable **React components** to support scalable UI design for complex monitoring systems.
- Supported Shopify development with Next.js enhancements for e-commerce performance.
- Debugged performance issues in data-heavy applications, ensuring faster load times and responsiveness.

PROJECTS

04/2024 – 08/2024

FPGA-based Hardware Verification Labs

Hochschule Bremen – Ongoing

- Designing testbenches using **Verilog** and **VHDL** in **Questa** for hardware-level simulation and verification.
- Writing testbenches for **VHDL-based DUTs**, incorporating **assertions** for functional and timing validation.
- Working on integrating FPGA logic with communication modules under test.

04/2024– 08/2024

Amplifier Design using Microstrip lines

Hochschule Bremen, Communication system design

- **Designed and implemented** a high-gain microwave amplifier using **Smith Charts**, Python, and **AWR Microwave Design Environment**, ensuring accurate impedance matching and achieving 8.52 dB gain at 3 GHz.
- **Automated testing** of the amplifier circuit using Python scripts, validating results using **network analyzers** and comparing theoretical and simulated data.
- **Developed and tested** the amplifier in a lab setting, integrating the design into PCB and using measurement tools such as **oscilloscopes** and signal generators.

EDUCATION

04/2024 – present

M.Sc., Communication Systems, Hochschule Bremen
Majors: Microwave Circuit Design, Satellite Communications, Advanced Digital Signal Processing,**Advanced Hardware Verification**.

06/2017 – 08.2021

B.Tech., Electrical and communication engineering, Guru Nanak Dev Engineering College India
Majors: Communication Systems, control systems, Microprocessor, Linear integrated systems, Computer Networks

SKILLS

Programming Languages: Python, System Verilog,JavaScript, MATLAB,C++.

Simulation Tools: AWR Microwave Design, MATLAB, Simulink**.**

Hardware Verification: Verilog, VHDL, Questa, **ModelSim**, Assertions, Simulation, Testbench Design

Testing Tools: Oscilloscopes, Spectrum Analyzers.

Technical Skills: React, Next.js, Vue, jQuery

CERTIFICATES

- **Advanced React** (Meta, Coursera) – Issued Feb 2023

LANGUAGES

German	A2
English	C1

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Bremen, 10..5.2025 pankaj