

Priyanka Giri

Software Engineer

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SUMMARY

Experienced software professional with a strong technical background in Software Engineering. Master's in Computer Science with a focus on Software Development and Computer Networking. Proven track record as a Junior Frontend Developer and Software Engineer, with expertise in Angular, React, Python, Nodejs, JavaScript, TypeScript, DevOps, and Automated testing frameworks.

TECHNICAL SKILLS

Languages: TypeScript, Javascript, CSS, HTML5, SCSS, Python, Java, C++, SQL

Frameworks: Angular16, Flask, Tailwind, Cypress, Playwright, REST API

Developer Tools: GitHub, Docker, AWS, Jira, ClickUp, Slack, Trello

Libraries: Redux, React, React Native, React Storybook, WebGL, MongoDB, threeJS, chartJS, Jest, NS-3, Tensorflow, Networkx

Other: Leadership, Mentoring, Debugging, Troubleshooting, Code Management, Code Review

LANGUAGE SKILLS

English: C1

Germany: A2

EXPERIENCE

Software Engineer

May. 2022 – Oct. 2023

Specter Automation - Automation in construction industry

Köln, Germany

- Responsible for designing, developing, and testing the digitalized B2B construction product using **HTML5**, **Tailwind**, **Angular16**, **Docker**, **CI/CD pipelines** and **AWS S3 buckets**.
- Building new features in the BIM Engine using **ThreeJs**.
- Integrated automated testing framework in the product using **Playwright**.
- Conducted code reviews, code management and debugging sessions to identify and resolve software defects efficiently.

Junior Frontend Developer

Dec. 2019 - Aug. 2021

Coindex - Cryptocurrency exchange platform

Bielefeld, Germany

- Developed and maintained reusable components for B2B product using **microservices**, **React**, **React Storybook**, **Typescript**, **HTML**, **SCSS** and **AWS Lambda**.
- Created a data visualization single-page application using **API**, **Redux**, and **ChartJs**.
- Created automated tests using **Cypress** framework to ensure that the front end of the website functions as expected; saving time and effort for QA engineers.

Angular Developer

Dec. 2017 - Dec. 2018

iDeators Technologies - IT services provider

Mumbai, India

- Developed some components of a B2C E-commerce website using **Angular6**, **Typescript**, **HTML5**, **Bootstrap**, **CSS**, and **Firebase**.

PROJECTS

Near-Shortest Path Routing in Hybrid Communication Networks Using Python

Paderborn University

Aug. 2024 – Jan 2025

- Developed a hybrid communication system using Unit Disk Graph (UDG) abstraction to grid-based networks in **Python**.
- Designed binary tree-based portal structures with interval-based labeling using libraries like **networkx** and **Matplotlib** for efficient routing.
- Integrated visualization of UDG-to-grid transformations and paths to demonstrate the algorithm's functionality.

AICON: Artificial Intelligence for Computer Networks

Paderborn University

Apr. 2020 – Mar. 2021

- Routing of the packets in a wireless network to their respective destination.
- Analysis of Reinforcement Learning algorithms in wireless networks using **Python** and **Tensorflow**.
- Minimizing packet loss due to important challenges such as signal interference, defect nodes in the network, and hidden terminal problems.
- Visualization of packet transfer using **networkx**.

Car Damage Assessment for Car Insurance

Mumbai University

Jun 2018 – May 2019

- Classification of car damages using **Python**.
- Experiment with transfer learning and ensemble learning.
- The frontend was done using **Angular** Framework.
- Paper publication based on project Damage Assessment For Car Insurance

EDUCATION

Paderborn University

Masters in Computer Science

Paderborn, Germany

2019 - 2025

Mumbai University

Computer Engineering

Mumbai, India

2015 - 2019

CERTIFICATIONS

AWS Solutions Architect Associate Certification

Jan. 2025 - Continued