



## Sahil Sanjay Nair

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## ABOUT ME

Software developer skilled with technologies such as Angular/React, nodeJS, and other software technologies. Experience with CI/CD and DevOps, working in an agile environment. Worked in the field of Virtual reality with a focus on User Interface design. Team player and adaptive to new technologies which is evident from my work experience across various domains of software development. I have completed my Master's in Computer Science from Paderborn University.

## WORK EXPERIENCE

 **ETAS GMBH (A BOSCH GROUP COMPANY)** – STUTTGART, GERMANY

**WORKING STUDENT DEVOPS IN CLOUD MIDDLEWARE** – 04/2024 – CURRENT

- Creating and maintaining **CI/CD pipelines** using **Github Actions**, automating, packaging, and delivering software releases to the customers.
- Automating **Sphinx Documentation** through CI/CD pipelines and writing **Python scripts** to automatically extract version data from conf file.
- Creating VM's on Azure and orchestrating using Terraform and setting up **Grafana** for the **AKS** runners.
- Automated the creation of the **jekyll website** and automated **yaml data** file generation for the website using **github cli** and action.
- Wrote automated tests using **pytest** and **beautifulsoup**, covering **90%** of overall tests for the pipeline and storing the snapshot of the logs in **Jfrog artifactory**.
- Using **Robot framework** for writing automated test for the user tutorial and automating the entire process through pipelines.
- Working in an **Agile environment(SCRUM)**, creating stories and actively reviewing code.

 **ROBERT BOSCH GMBH** – STUTTGART, GERMANY

**INTERNSHIP** – 01/10/2023 – 03/2024

- Revamped the old application and integrated into new one in **Angular**.
- Implemented all the features maintaining **facade architecture** and thus optimizing API calls by **90%** through **state management**.
- Implemented new functionality using **RxJS**, establishing backend connections through **NodeJS** and tuned the **CRUD** operations at backend.
- Wrote **unit test cases** for all the components increasing test coverage up to **80%** and collaborated using version control such as **git**.

 **EMANO DEVELOPMENT GMBH** – BAVARIA, GERMANY

**WORKING STUDENT** – 05/2023 – 09/2023

- Worked on enterprise project as a frontend developer using **Angular, Bootstrap, Angular CDK, Material**.
- Developed an **Azure DevOps** extension for dependency tracking for the company, and deployed the same on **Azure Devops**.

 **FRAUNHOFER IEM** – PADERBORN

**MASTER THESIS** – 05/2024 – 12/12/2024

- Master thesis topic:- Analyzing the AI and digital potential of early factory planning: Methodology for Digital Integrative Factory.
- Implementing a user-centric visualizing tool using **reactJS, MySQL, node and express**.

## EDUCATION AND TRAINING

10/2021 – 01/04/2025 Paderborn

**MASTERS IN COMPUTER SCIENCE** Paderborn University

07/2017 – 07/2021 India

**BACHELORS IN COMPUTER ENGINEERING** Mumbai University

## LANGUAGE SKILLS

Other language(s): **ENGLISH: FLUENT** | **GERMAN: B1** | **HINDI: FLUENT** | **MALAYALAM: MOTHER TOUNGUE**

## SKILLS

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Unit Testing- Karma/Jasmine for Angular , NUnit for C# | C# | MySQL | CSS | HTML | JavaScript | Angular | React | Bootstrap | Firebase | Python | Angular Material | Git | GitLab | Unity | Visual Studio Code | Azure DevOps | Teamwork | Java | Terraform (HCL) | AGILE methodology | Github, Github actions | Docker | Linux | Typescript | PHP | YAML | SCRUM | Atlassian (JIRA/CONFLUENCE) | Redux | Flask | REST Client, SOAP, REST API | .Net | NodeJS | Express | MongoDB

## PROJECTS

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04/2022 – 04/2023

### Virtual Chemistry Lab

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An Industry standards Project that spanned **1 year** for students to perform certain experiments in **virtual World**. **UI expert** for the entire project, responsible for creating the UI in the virtual world for the entire project, implemented lot of features, including a graph that shows the live temperature variation for an experiment being one of the notable feature, worked in a team of 12 in a scrum environment, done **user testing**. Responsible for reviewing the PR.

10/2020 – 04/2021

### Expression Recognition-Based Music Recommendation System

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Responsible for data cleaning and facial recognition using **OpenCV**, Developed fully responsible Web Application to **capture images of a persons face** and recommend music based on the recognized expression in Angular, Deployed the same on **Heroku**.

**Link** [https://github.com/Sahilnair71/fer\\_music\\_recommendation\\_system](https://github.com/Sahilnair71/fer_music_recommendation_system)

02/2020 – 08/2020

### Doctors Prescription System with Handwriting Recognition

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Developed a fully responsible website with minimal complexity for doctors and patients. Used Firebase for backend and authentication purposes

**Link** <https://github.com/Sahilnair71/angular-doctors-prescription>

## HONOURS AND AWARDS

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03/2018

### 1 ST prize in Technical Project Presentation at XTACY 2K18 at Padmabhushan Vasantdada Patil Pratishthans College of Engennering ( Project Smart Glasses)

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Developed a smart glass in a team of 4 that replicates Google glasses in minimal expense. Used Arduino Nano and Bluetooth Module to connect to the Mobile Phone.

## CERTIFICATIONS

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08/2018

### Introduction To Programming Using Python

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Microsoft