
Personal Information

Name Amit Tiwari
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My-Website <https://xander123.pythonanywhere.com/>
Date of Birth 04.08.1993
GitHub <https://github.com/smilyamit>



Professional Experience

09/2021 – 05/2022

BASF, Cologne, Germany

Master Thesis in Weed Application Development by using Python, Java, AWS

- **Designing the Subqueries for Data Lake**
- Made the **Django REST API** & perform novel Feature Engineering on data in machine learning pipeline
- **Serializing data** using JSON Web tokens
- Worked on **Authentication and Authorization**, adding pagination
- Built **Microservices** based on **Spring Boot (Java)** and **Flask (Python)**

04/2021 – 09/2021

BASF, Cologne, Germany

Working Student in Software Development

- Built crop yield model based on rule-based algorithm. (Team: 11)
- Improved & changed the existing **REST API** and made several modifications in **Lambda function on AWS**
- Implemented **Django on the server-side** to handle Weather API, Soil API, Growth Stage API, Google Elevation API

01/2020 – 06/2020

KoRo Handels GmbH, Berlin, Germany

Internship in Web Development

- Solved the missing media query problem of the website using **CSS & JavaScript**
- Tackled website slows loading problem by using **CDN** and optimize code related to plugin & image stuff
- **Built NLP** based Chatbot & Integrated with Slack for chat assistance

07/2016 – 09/2018

Unigaz Tech, Doha, Qatar

Junior Project Engineer in Sensor System

- Built the entire **sensor-based fuel system** of Qatar Naval Base
- Tested & commissioned various **embedded control units**.

Education

10/ 2018 – Present

Ernst Abbe Hochschule Jena University of Applied Science, Germany
Master of Science in Scientific Instrumentation

Python, Scientific Computing, Embedded systems, Sensors Technologies

08/ 2011 – 07/2015

Visvesvaraya Technological University, Bangalore, India
Bachelor of Engineering in Mechanical Engineering

Engineering Mathematic, Computer Integrated Manufacturing, Mechatronics and Machine Design.

Personal Skills and Competence

Technical Skills

- **Web Stack: Python (Django, Flask, RabbitMQ), JavaScript, CSS, HTML5**
- **Java: Abstract Class, Interface, Inheritance, Polymorphism, Spring Boot, Spring MVC, Dependency Injection, Security**
- **AWS Services: EC2, S3, Lambda, API Gateway**
- **SQL and NoSQL DBMS: MySQL, PostgreSQL, MongoDB**
- Repo & container engine: Data Lake, Docker
- Version Control: Git, Source Tree, Bitbucket
- System: Mac, Windows, Linux
- Atlassian Tools & other: Jira, Confluence, Microsoft Office 365

Language Skills

- German -B1, English-Fluent, Hindi-Native

Hobbies

- Drone Flying, Photographing, Trekking

Köln, June 2022