



POOJA SANGLE

SOFTWARE DEVELOPER

M.Sc in Computer Science, Kaiserslautern, Germany

B.Tech in Computer Science,

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Kaiserslautern, Germany

WORK EXPERIENCES:

- **Research Assistant** 07/2024 - Present
FRAUNHOFER IEE, Kassel, Germany
 - Utilized **Python** to extract, clean and process climate data from two sources (ESGF and DWD) for detailed analysis
 - Conducting comparative analysis of ESGF and DWD datasets to identify the best fit for organizational use
- **Research Assistant** 02/2023 - 06/2024
FRAUNHOFER FHR, Wachtberg, Germany
 - Developed a **React** web app for my team to easily register/ login, access and visualize materials data
 - Integrated **React chart.js** library for visual analytics
 - Utilized **Django** for backend development
 - Integrated **PostgreSQL** to store materials data
 - Deployed the application using **Kubernetes**
- **Software Developer** 06/2021 - 10/2022
VERSOR INVESTMENTS, Mumbai
79th Largest Hedge Fund Manager, \$1.3 B+ in total assets under management as of June 28, 2024
 - Developed **ASP.NET** dashboards automating all manual Portfolio Implementation tasks
 - Created **python process** to un-pickle log files from Portfolio Model runs
- **SDE Intern** 01/2021 - 06/2021
VERSOR INVESTMENTS, Mumbai
 - Used **Python** and **SQL** to develop the Position Limits Checker System, enabling the monitoring of internal positions against CFTC limits based on contract periods
 - Automated the system to run daily, generating reports that highlight breaches, saving 99% manual effort and time
 - Prevents penalties by identifying breaches efficiently

INTERNSHIPS:

- **Android Developer, Digital MLS** 06/2019 - 07/2019
 - Created a resort booking app with **Android Studio IDE** where location and rooms are selected by users
 - Used **DatePickerDialog** for easy date selection
 - Books rooms if available, else prompts to choose other rooms/ locations, shows booking confirmation
- **Tech Intern, WorkIndia** 04/2019 - 05/2019
 - Implemented complex **SQL queries** in **Django ORM**
 - Integrated **Google sheets API** for updating the query results automatically to the sheets
- **Android Developer, Yamini Pvt. Ltd** 12/2018 - 03/2019
 - Developed a **chatbot** using **dialog flow** and an online buyer-seller app, currently used by users
 - Tells users details of shops near them and takes orders

TECHNICAL SKILLS:

- **Languages:** Python, Java, C#, Javascript, SQL
- **Frameworks:** Django, ASP.NET, Flask
- **Web Tools:** React, Bootstrap, HTML, CSS
- **Database management:** MySQL, PostgreSQL, MongoDB
- **IDEs:** PyCharm, Eclipse, Visual Studio Code, Android Studio, Tableau Toolkit, IntelliJ IDEA, Jupyter Notebook
- **Others:** Git, GitHub, Jira, CI/CD, Kubernetes

MASTER'S THESIS & PROJECTS:

- **Master's Thesis:** 09/2024 - Present
 - Created a template-based table interface for SysML v2 using **React**, allowing users to input and visualize model elements in a familiar and structured format
 - Designed a parser to convert SysML code into a structured table format for easier data entry
 - Validated user inputs against SysML v2 syntax, semantics
 - Developed an intuitive interface that helps both new and experienced users work effectively with system models
 - Enabled switching between textual and graphical views
- **Budget Tracker WebApp:** 04/2024 - 04/2024
 - Created **React** website to add, delete and view categorized/ uncategorized budgets and expenses
 - User can visualize if they are within-budget or over - budget with the coloured **css** progress bar
 - Utilized **useState, useEffect, useContext** and **useRef** hooks for completing the project
- **The ToDo WebApp:** 07/2023 - 07/2023
 - Used **Django, Django Rest Framework** to create an API, Integrated **MySQL** database to store authorized user and todo list details
 - Implemented dynamic pages to display user-specific Todo item details upon login
 - Sorted details by due dates to avoid missed deadlines

EDUCATION:

- **M.Sc in Computer Science** 10/2022 - 10/2024
Technical University of Kaiserslautern
CGPA: **2.3 / 5**
- **B.Tech Computer Science** 06/2017 - 06/2021
Sardar Patel Institute of Technology
CGPA: **8.98 / 10**
- **HSC - Thakur Vidya Mandir** 06/2015 - 05/2017
89.38 %
- **SSC - Yashodham High School** 06/2000 - 05/2015
95.20 %

LANGUAGES:

- **German** - Intermediate
- **English, Hindi, Marathi** - Fluent