SGDSVV RAMANAMURTHY KATAKAM

Software Developer

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EXPERIENCE

Software Developer Intern — May 2024 - currently working
Forvia - Hella — *Lippstadt*

- Working in a team and assist them to design GUI for automating the data manipulation, repetitive manual tasks, data analysis, vibration analysis.
- Tasks are first discussed with my mentor and will be assigned to me, once tasks are done then those GUIs are thoroughly tested among all team members and check for final modifications and then deploy it as internal tool.
- I made my career boost by learning Python, C++, LaTex, QT creator, Anaconda algorithm design, data manipulation, Parallel programming, GUI designs also some soft skills are developed like team meetings, individual work, meeting dead lines.
- My works cannot be published in public as they are used as internal tool.

Web Developer — Apr 2024 - currently working
eTeach-thueringen - Bauhaus University — *Weimar*

- Working in a team for assisting different personnel to maintain the website.
- Tasks are first discussed with each individual and will be assigned to me, once tasks are done then those changes in codes and website are directly deploy for public use.
- I made my career boost by learning Javascript, Wordpress, Elementor, different plugins like Edoobox, MEC Calender LaTex, Python, cloud technologies also some soft skills are developed like team meetings, individual work, meeting dead lines.
- Documentations are made for future reference purposes using improved writing skills and powerpoint, documentation.
- website link is [eTeach](#)

C++ Developer — Dec 2022 - currently working
Bauhaus University — *Weimar*

- Worked under a supervisor for assisting his tasks for developing libraries for Math, Signal processing, K means clustering, Support vector machine, Data loggers, ROS.
- Tasks are first discussed with supervisor and will be assigned to me, once tasks are done then those codes are integrated with his work. Template making, library development, testing.
- I made my career boost by learning C++, LaTex, QT creator, algorithm design, also some soft skills are developed like team meetings, individual work, meeting dead lines.
- Documentations are made using improved writing skills.
- some of my works are pushed into [GitHub](#)

Web developer — Jun 2023 - Nov 2023
Frei — *Weimar*

- Helped some clients to design new and redesign websites of their own.
- Tasks are listed according to their requirements.
- I made my career boost by improving skills like HTML, CSS, JavaScript, Wordpress, Elementor.

- some of my works websites are: [Menka und cookie - link](link), [Modern building - link](link), [Rechtsanwalthotz - link](link), [ERWS - link](link)

Systems Engineer   Jun 2021 - Nov 2021

Infosys   *India*

- Worked as support engineer as System admin .
- Tasks are assigned to us by ticketing in internal application.
- I made my career boost by improving skills like Java, Linux, Bash scripting, Networking.

EDUCATION

MSc Digital Engineering (Computer science), Bauhaus University   Expected Mar - 2025
Main Competencies: MATLAB, Octave, Java, SQL, HTML, object-oriented programming, CSS, JavaScript, algorithms and data structures.

Bachelor of Technology, JNTUK - UCEV Vizianagaram   2016 - 2020
Main Competencies: CAD-Software (Fusion 360, CATIA, Solidworks), Thermal Engineering, Heat transfer, Thermodynamics, vehicle dynamics.

SKILLS

Computer Skills	C++, Java, Python, MATLAB, Frontend, SQL, GIT, Docker, Bash Scripting.
Web development Skills	HTML, CSS, JavaScript, Wordpress, Elementor, Edoobox, MEC Calender.
IDEs	QT creator, VS code, vim editor, Eclipse
Soft Skills	Self reliant, Team player, problem solving, Curious, Enthusiast
Languges	English (professional), German (conversational - B1)

PROJECTS

Visualisation of sensor data using QT (Software development C++): During my career as a C++ developer and research assistant, I had the opportunity to develop a GUI to retrieve sensor data and plot them continuously in a time interval with OOPS concepts and QT creator. Currently implementing code for integration to the sensor device to actually see it's real time functionality.

WebDAQ DataLogger (Software development C++): During my career as a C++ developer and research assistant, I had the opportunity to develop a WebDAQ library file that contains the functions for connecting to and retrieving data from the WebDAQ server using C++. APIs are the basis for working with this type of task. Now this GUI can remotely connect to WebDAQ Server.

K-Means Clustering (Software development C++): During my career as a C++ developer and research assistant, I had the opportunity to develop a k-means-lib library file encapsulating functionality for the k-means clustering algorithm in C++. It provides methods and attributes for a class to initialize, adjust, and predict clusters based on multidimensional input data. All data can be found on this [GitHub link](link).

Signal Processing Libraries (Software development): During my role as a C++ developer and research assistant, I implemented a library generating waves of various types such as sinusoidal, co-sinusoidal, square, fourier, saw-tooth, random noise signal, and continuous wavelet transformation (CWT) discrete fourier transformation (DFT) on waves using C++. All data can be found on this [GitHub link](link).

Personalized Argument Search (Web development): During my project, I worked with web development tools (HTML, CSS, JS) to design and enhance the args.me website. I implemented search suggestions and query history using the client's local browser storage and a JS file with some word suggestions for automatic search completion.

Translation of Limboole to SMT (Java, Limboole, SMT): In this project, we were tasked with translating formulas in Limboole format to the SMT-LIB-2 format and checking their performance in formula conversion. I used Java for format translation and performance testing.

Corona Self-Assessment Application (SQL, Java): I developed software that assists users in self-assessing coronavirus symptoms and provides suggestions based on their symptoms. I used Java Swing in Eclipse for application design and SQL commands for data storage.