

# SGDSVV RAMANAMURTHY KATAKAM

Software Developer

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## EXPERIENCE

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### C++ Developer

Bauhaus University

Dec 2022 - currently working

*Weimar*

- Worked under a supervisor for assisting his tasks for developing libraries for Math, Signal processing, K means clustering, Support vector machine, Data loggers.
- Tasks are first discussed with supervisor and will be assigned to me, once tasks are done then those codes are integrated with his work.
- 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.
- some of my works are pushed into [GitHub](#)

### Web developer

Frei

Jun 2023 - Nov 2023

*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](#), [Modern building - link](#), [Rechtsanwaltshotz - link](#), [ERWS - link](#)

### Systems Engineer

Infosys

Jun 2021 - Nov 2021

*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

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### MSc Digital Engineering, Bauhaus University

Expected Mar - 2025

Main Competencies: Java, SQL, HTML, object-oriented programming, CSS, JavaScript, algorithms and data structures, MATLAB.

### Bachelor of Technology, JNTUK - UCEV Vizianagaram

2016 - 2020

Main Competencies: CAD-Software (Fusion 360, CATIA, Solidworks), Thermal Engineering, Heat transfer, Thermodynamics.

## SKILLS

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### Computer Skills

C++, Java, Python, Frontend, SQL, GIT, Docker, Bash Scripting.

### IDEs

QT creator, VS code, vim editor, Eclipse

### Soft Skills

Self reliant, Team player, problem solving, Curious, Enthusiast

### Languages

English (professional), German (conversational - B1)

## PROJECTS

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**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. I am currently coding the user interface for the remote connection.

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**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](#).

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**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](#).

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**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.

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**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.

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**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.