RAMANAMURTHY KATAKAM

C++ Developer | Web Developer | Java Developer

- Am Herrenrödchen 1b, wiemar,germany in ramanamurthy-katakam-9b44ba18b/
- wiemar, ThüringenDattaKatakam?tab=repositories/

EXPERIENCE

Research assistant C++ developer

Bauhaus university

- Sept 2022 Ongoing
- wiemar, Thüringen
- Main Competencies: C++ programming, signal processing, QT creator, Open CV, algorithm design, LaTeX, C#.
- Responsibilities: Code development, documentation, signal generation, support vector machines (SVMs), tests, collaboration, continuous learning, k-means clustering, data loggers.

Systems engineer

Infosys

- ☐ Jun 2021 Nov 2023
- Main Competencies: Java, Linux, Networking, Ansible, Bash scripting.

Web developer

- ☐ Jun 2023 Nov 2023
- wiemar, Thüringen
- Main Competencies: Web design, HTML, CSS, JavaScript, WordPress, Elementor.
- Responsibilities: Website creation & hosting, redesign, content management, collaboration with clients, and efficient project implementation.

EDUCATION

MSc, Digital Engineering

Bauhaus-University

- Apr 2021 till date
- wiemar, Thüringen
- Main Competencies: Java, SQL, HTML, object-oriented programming, CSS, JavaScript, algorithms and data structures, MATLAB, Octave, Fusion360, ANSYS, ANYLOGIC.
- Educational Achievements: Completion of study subjects and the master's thesis, project development, simulation, modeling, communication skills, problem-solving, collaboration, and innovative contributions.

B.Tech, Mechanical Engineering

JNTUK - UCEV Vizianagaram

- **1** 2016 2020
- Vizianagaram, India
- Main Competencies: CAD Software (Fusion 360, CATIA, Solidworks), Thermodynamics, Cooling, air conditioning, Fluid dynamics, Mechanical design.
- Educational Achievements: Completion of study subjects and the bachelor's thesis (E-MOPED design, simulation, and built prototype), project design, machine operation, automobile engineering, heat transfer, thermodynamics, and their understanding, along with basic software programming languages.

MOST PROUD OF

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Independent and self reliant

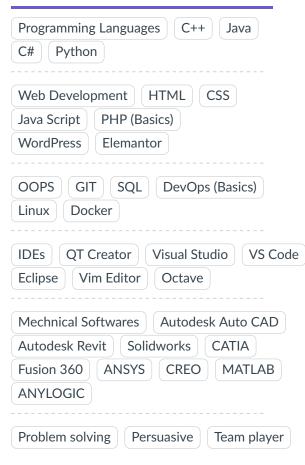
Capable of managing any situation autonomously with utmost dedication and effort



Professional development

Transitioning to my current role as a software developer from a mechanical engineer under graduate this involved overcoming numerous challenges and acquiring extensive knowledge along the way.

STRENGTHS



LANGUAGES

English German



PROJECTS

• 💠 K-Means Clustering (Software development)

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.

• III 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.

Menka und Cookie Website (Web development)

In this project, I used web development tools (HTML, CSS, JS) to create the website https://menkaundcookie.de, based on the book "Menka und Cookie" by a young author team. This was a freelance project for third parties. Throughout this project, I developed and hosted the website, resulting in the generation of Google search results since its publication.

Q 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.