RAMANAMURTHY KATAKAM

C++ Developer | Web Developer | Java Developer

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 DattaKatakam?tab=repositories/
- Wiemar, Thüringen

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

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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 Kmeanslib 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, cosinusoidal, square, Fourier, sawtooth, 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.