



JOHN RAPHY KARIPPERY

Fullstack Developer and DevOps Engineer

CONTACT INFORMATION



[Portfolio](#)



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[LinkedIn](#) | [GitHub](#)

PERSONAL DETAILS

Date of Birth: 13.11.1993

Nationality: Indian

Family Status: Married

LANGUAGE SKILLS

Malayalam: (mother tongue)

English: C2 (Fluent)

German: B2 (Proficient)

Tamil

ADDITIONAL INFORMATION

Visa Status: EU Blue Card

Relocation: Open to relocation

HOBBIES

Traveling

Gaming

Photography

PROFESSIONAL SUMMARY

I have over 6 years of experience as a developer, specializing in building reliable systems and modern applications. I am passionate about improving processes and developing practical solutions.

PROFESSIONAL EXPERIENCE

Software Engineer

EDAG Engineering GmbH | | Wolfsburg, Germany

May 2022 – June 2025

- **Backend Development:** Developed a production management system for progress tracking and estimation using Django REST Framework, Docker, and CI/CD pipelines. Designed robust, versioned REST APIs following best practices for performance and security, implementing authentication and authorization with JWT.
- **DevOps:** Expertise in CI/CD tools including GitHub Actions, Bitbucket, Jenkins, and Git. Managed Docker containerization, implemented logging and monitoring using the ELK stack (Elasticsearch, Logstash, Kibana), and introduced agile practices with Jira
- **Frontend Development:** Worked with React Next.js and MUI for API integration. Automated testing using Cypress.
- **Software Quality & Testing:** Contributed to software testing for the ELF Adaptive Project, wrote test specifications, and designed and implemented test cases using the Robot Framework to ensure software quality.

Software Developer

Siemens Mobility | Braunschweig, Germany

February 2019 – February 2022

- Developed and maintained a real-time dashboard for railway systems using PHP, JavaScript, HTML, CSS, and PostgreSQL on Debian-based Linux servers.
- Configured and managed high-availability infrastructure, including service installation, proxy settings, and a master-slave cluster using Pacemaker and Corosync on Debian.
- Migrated and optimised databases from SQLite to PostgreSQL to enhance performance and reliability.
- Created comprehensive system documentation with Markdown and UML diagrams (class, logical, and sequence) to support long-term maintainability and team collaboration.

Junior Software Developer

Bredex GmbH | Braunschweig, Germany

February 2018 – December 2018

- Developed and maintained frontend applications using Angular 5, Node.js, and MySQL.
- Created user-friendly VBA code in Excel to automate vehicle service reports, enhancing accessibility and efficiency for end users

EDUCATION

Master of Computer Science

Technische Universität Clausthal

October 2017 – February 2022

Thesis: Developed a machine learning program in Python using the NSGA-II algorithm to optimize vehicle platooning for more efficient fuel usage and better adaptation to large datasets. Utilized Gurobi to refine results and compared traditional methods to demonstrate the potential of machine learning in solving real-world challenges. Used Pandas, NumPy, and Matplotlib for data handling and visualization.

BACHELOR OF COMPUTER APPLICATIONS

Christ College Irinjalakuda, India

June 2012 – August 2015

Thesis: Developed a hospital management system using PHP, JavaScript, HTML, and MySQL. Designed features for patient management, online appointment scheduling, visit booking, medical report generation, and patient status tracking.

PERSONAL PROJECT

Smart-Skill – Employee Skill Management System

2024- Present

- Backend: Designed an internal system for employee allocation based on project requirements using Django, PostgreSQL, Celery+Redis, Docker, JWT, and Swagger UI.
- Frontend: Built responsive user interfaces with React, TypeScript, and Tailwind CSS, focusing on state management and API integration.

Table Booking System (FastAPI, PostgreSQL, Docker)

2025- Present

- Developed a RESTful API with OAuth2/JWT authentication, role-based access (Admin/User), and real-time table availability.
- Engineered a scalable backend architecture with async SQLAlchemy, Pydantic validation, and optimized PostgreSQL database.
- Implemented Docker containerization and documented the API using Swagger UI for easy integration.

SKILLS & TECHNOLOGIES

Advanced

- | | |
|--------------|-------------------------|
| • Python | • Django Rest Framework |
| • FastApi | • React |
| • CSS/HTML | • Docker |
| • JavaScript | • AWS(S3, ECR,ECS) |
| • TypeScript | • Angular |

Intermediate

- | | |
|---------------|---------------|
| • Java | • Git/GitHub |
| • CI/CD | • Spring boot |
| • Agail/Scrum | • Jenkins |

Basic Knowledge

- | | |
|--------|--------------|
| • .Net | • Flask |
| • C++ | • Kubernetes |

Location: Braunschweig

Date: 22.06.2025

Signature:

