

Muhammed Rashal M

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Github.com/rashal5/ | Linkedin.com/in/rashal5/ | [Portfolio-rashal](https://Portfolio-rashal.com)

Technical Skills

Programming Languages: C, C++, JavaScript, Python, HTML5, CSS3

Technologies: Microservices, REST APIs, Prisma, WebSocket, Redis, MySQL, AWS, Linux, Git, GitHub

Frameworks & Libraries: React.js, TypeScript, Tailwind CSS, Material UI, Next.js, Bootstrap, Three.js, Node.js, Django

Tools: Figma, Blender

Experience

Software Developer Intern

June 2024 - December 2025

SMEC Labs

Ernakulam

- Developed dynamic web applications using JavaScript and Python based frameworks such as **Express** and **Django**, contributing to the creation of scalable and efficient web solutions.
- Specialized in integrating front-end applications with **RESTful APIs** and **web sockets**. I also developed server-side logic and APIs using Express and Django, handling data processing and business logic efficiently.
- Utilized version control systems (Git) for code management, collaboration and continuously learned and applied new technologies with industry trends and improved technical skills.

Full Stack Developer

January 2025 – Present

SMEC Automation Pvt Ltd

Infopark ,Ernakulam

- Developed **high-performance 3D web applications** and **digital-twin dashboards** with real-time mechanical machinery visualization, part comparison, advanced animations, and interactive controls.
- Integrated **vibration analytics** and **ML-based failure prediction** into 3D environments, enabling early detection of mechanical issues through visual highlights and analytical graphs.
- Engineered **complex backend infrastructures** and efficient data pipelines that support large-scale monitoring, analytics, and visualization optimized to run even on low-resource devices like **Raspberry Pi and Thin Clients**.
- I have a strong understanding of frontend design, with a focus on creating clean, user-friendly interfaces that feature effective layouts and responsive design. I am skilled in using **Figma** for UI/UX design and **Blender** for 3D asset creation, transforming complex visuals into simple, practical components.
- Designed and optimized database systems, project management tools, and scalable backend architectures, improving overall performance and data handling.
- As part of the R&D team to experiment with multiple frameworks and technologies, delivering innovative prototypes and full-stack production solutions using **Node.js, React, Prisma, Django, AWS (EC2/S3) and Linux** with robust deployment, cloud integration, and high system reliability.

Education

University Of Calicut

Jun 2021 - Jun 2024

BSc Computer Science