

# RUDRESH

Final Year MCA @ Jain (Deemed-to-be University)-Bangalore

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## Education

❖ **Jain (Deemed-to-be University), Bangalore.**

Master of Computer Applications.

[Aug 2023 – June 2025]

Current CGPA: 8.30

❖ **Presidency University, Bangalore.**

Bachelor of Computer Applications.

[Jun 2020 – June 2023]

CGPA: 8.88

## Experience

**Project Intern | Certificate** 📄

**On-Site [Jun 2024 – Sep 2024]**

**Robert Bosch, Bangalore.**

Contributed to advanced software projects at Robert Bosch, driving innovation and efficiency

❖ **Family Day Application 2024**

**[Techs: NextJs, MySQL, Middlewares]**

Developed a streamlined, NextJS-powered full-stack solution for employees to register themselves and their family members (including spouses, children, and parents) for the Family Day 2024 event.

- ❖ **Secure Access & Data Management:** Implemented robust authentication, session management, and protected routes, enabling secure admin uploads of employee data in various formats.
- ❖ **Personalized Registration & Reporting:** Developed an employee registration interface with options for adding family members, and created an admin portal with a reporting system that generates detailed reports on registrations, participation, and more.
- ❖ **Optimized Performance & UX:** Utilized NextJS's SSR and SSG, React Hooks, and responsive design to deliver a seamless user experience, improved performance, and scalability.

❖ **SMT Changeover Info Application**

**[Techs: React, Nodejs, MySQL, Sequelize]**

Developed a comprehensive application leveraging ReactJS for the frontend and ExpressJS and NodeJS for the backend, utilizing Oracle MySQL Developer, and MySQL Workbench as databases, to streamline SMT changeover information.

- ❖ **Scalable Architecture & Data Retrieval:** Designed a modular architecture to accommodate 14 SMT lines, implementing a data pipeline that integrates multiple tables to retrieve and display critical changeover information.
- ❖ **Real-time Data Visualization & Updates:** Developed a continuous FIDS format display with key columns and calculated fields, ensuring data freshness across all 14 SMT lines with automatic updates every 10 minutes.
- ❖ **Robust Data Management:** Utilized Oracle MySQL queries and MySQL Workbench to process and integrate multiple databases, ensuring data consistency and integrity.

❖ **SSO Integration**

**[Techs: Azure AD, MSAL, JWT]**

- ❖ **Federated Identity Management:** Successfully implemented SSO across various applications via Azure AD registration, enabling a cohesive and unified identity management system for enhanced user experience.
- ❖ **Secure Token Management:** Utilized the jwt-decode package to extract claims from ID tokens in JWT format, ensuring robust and secure authentication while safeguarding user data.
- ❖ **Seamless Session Management:** Efficiently stored authenticated user credentials in sessionStorage, providing continuous access and a frictionless user experience across multiple applications and sessions.

❖ **IIS Deployments**

**[Techs: Microsoft IIS]**

- ❖ **Scalable and Secure Deployment:** Executed IIS application deployments, leveraging load balancing, auto-scaling, and robust security features to ensure high availability and data protection.
- ❖ **Remote Server Management:** Utilized RDP to connect to the server, hosting developed web applications on the IIS platform, and configuring HTTPS with user-defined selective ports for secure access.

## Projects

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### ❖ AI-Companion | Github [↗](#) | Live [↗](#) [Techs: Google/generative-ai, ThreeJs, React]

- Utilized cutting-edge AI technology to craft an interactive frontend, bringing to life a stunning 3D rendition using Three.js.
- Enthralling users with dynamic dance moves, from the sway of salsa to the rhythmic allure of twerk and energetic precision of drill.
- Orchestrated immersive dialogue experiences, leveraging **Gemini Google Generative AI** API for engaging conversations.

### ❖ Ubuntu-Themed-Personal-Portfolio | Github [↗](#) | Live [↗](#) [Techs: NextJs, EmailJs, tailwindcss]

- My personal Portfolio Website, a digital oasis inspired by the **Ubuntu 20.04** aesthetic.
- Built with **Next.js** and styled gracefully with **Tailwind CSS**, it promises a refined digital journey.
- Connect me through the Contact Me app, powered by **EmailJS** for smooth communication.
- This website is more than a portfolio, it's an ecosystem for digital exploration and connection.

### ❖ Car-Configurator | Github [↗](#) | Live [↗](#) [Techs: React, ThreeJs, R3F, Blender]

- Crafted with **Three.js**, Blender, React, and GLTF, Rudy's Car Configurator epitomizes innovation in virtual car customization.
- Explore a realm of luxury vehicles, each meticulously rendered in 3D for an immersive experience.
- Seamlessly integrated, **download** your bespoke creation as an image, ready for sharing or further admiration.

## Technical Skills

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- **Frontend** JavaScript, React, Threejs, Next, Vite
  - **Backend** Node, Express, Docker, Kafka
  - **Database** MySQL, MongoDB, Oracle
  - **Tools** Postman, Blender
  - **Version Controls** Github, BitBucket
  - **Languages** Python, Java, HTML
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## Achievements and Honors

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In the **LeetCode Biweekly Contest 125**, attained an impressive ranking of **1006** out of global participants, demonstrating adept problem-solving skills and competitive programming expertise. **Live** [↗](#)

**2023:** Achieved the prestigious Gold Medal in the BCA Department at Presidency University, showcasing exceptional academic prowess and dedication. **Live** [↗](#)

**2023:** Graduated with High Honors in Computer Science from Presidency University, reflecting outstanding academic performance and a profound understanding of the subject matter.

**2022:** Secured the second-place position in the Inter-College Volleyball Championship, highlighting exceptional sportsmanship and teamwork skills in competitive sports.

## Certifications

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- Mastered **practical** tasks in **Agile methodologies**, including **Scrum practices** at JPMorgan Chase & Co. Demonstrated proficiency in User Stories, Backlog Refinement, Daily Standups, and **Sprint Reviews** and Retrospectives. **Live** [↗](#)
- Certificate Course in various domains from **Hackerrank**. **Live** [↗](#)

## Interests

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- I enjoy building awesome **Software as a service** (SaaS) that solve practical problems.
- When I am not coding my next project, I like to spend my time travelling or playing volleyball. And I also have interest in Data Science & RestFul APIs!

**Online version**

Last updated at October 11<sup>th</sup> 2024 12:51:34 pm