

# Rudraraj Pandey

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Location: Pune, Maharashtra, India

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## CAREER OBJECTIVE

A highly motivated individual with a strong foundation in **Full Stack Development, IoT** and **Embedded System**. Experienced in **C++, JavaScript**, and **.NET**. Seeking an opportunity to apply my **technical skills and problem-solving abilities** to contribute to the organization.

## SKILLS

<b>Languages</b>	:	C/C++, C#, SQL, HTML, CSS, JavaScript
<b>Frameworks &amp; Tools</b>	:	STL, .NET Core MVC, React.js, Node.js, TailwindCSS, PostgreSQL, NeonDB, Visual Studio Code, Git, GitHub, MS Office, TeXstudio
<b>Core Competencies</b>	:	Multithreading, Memory Management, API Integration, Data Structures & Algorithms, OOPs, IoT, Computer Systems, RESTful Web Development, Unit Testing
<b>Professional Skills</b>	:	Teamwork, Leadership, Communication, Problem-solving, Collaboration, Adaptability
<b>Certifications</b>	:	<a href="#">SQL for Data Science by Coursera</a>   <a href="#">OCI Certified DevOps Professional</a>

## INTERNSHIP

<b>IoT Intern</b> Bharat ACT	June 2024 – August 2024 Hybrid – Pune, Maharashtra, India
<ul style="list-style-type: none"><li>Developed <b>C++ based firmware</b> for IoT systems running on <b>microcontrollers</b>. Implemented <b>network protocols</b> to transmit sensor data securely.</li><li>Worked with <b>real-time data processing</b> and <b>embedded systems development</b>.</li></ul>	

<b>Subject Matter Expert(Freelancer)</b> Chegg India	September 2023 – Nov 2023 Remote
<ul style="list-style-type: none"><li>Assisted students with <b>C++</b> and <b>Java</b>-based problem-solving in competitive coding scenarios.</li><li>Reviewed and optimized <b>SQL queries</b> to improve database performance.</li></ul>	

## EDUCATION

<b>Bharati Vidyapeeth University College of Engineering</b> <i>Bachelor of Technology in Electronics and Communication</i>	Pune, Maharashtra, India 2021 – 2025
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## PROJECTS

### Real-Time Chat Application

- Developed a **full-stack real-time chat application** using **ASP.NET** with features like instant messaging.
- Implemented **JWT-based authentication, private messaging**, and **user presence tracking**.
- Deployed on **Azure App Service** with automated **CI/CD pipelines**, and enforced best practices in **version control, security, and maintainability**.

### AI SaaS App: All in One AI

- Built a full-stack **AI-powered SaaS platform** integrating multiple tools like **article writer, blog title generator, resume reviewer, image generator, and object/background remover**.
- Used **React, TailwindCSS, Node.js, Express.js**, and **PostgreSQL (NeonDB)** with integrations like **Google Gemini API, Cloudinary, and ClipDrop**.

### Handwash Monitoring System

- Developed an IoT-based automatic handwash monitoring system using **C++** and **Arduino Uno** to ensure proper hand hygiene and ensure a structured handwashing process.
- The system integrates an IR sensor to detect hand presence, a fingerprint sensor for user authentication, an OLED display for real-time guidance, and a relay-controlled water pump for automated water dispensing.

## EXTRA CURRICULUM ACTIVITIES

<b>Hewlett Packard Enterprise Software Engineering Job Simulation on Forage</b>	June 2025
<ul style="list-style-type: none"><li>Wrote a proposal for a <b>RESTful web service</b> to manage a list of employees.</li><li>Built a web server application in <b>Java Spring Boot</b> that can accept and respond to <b>HTTP requests</b> as well as support uploading JSON data.</li><li>Developed and ran a set of <b>unit tests</b> to assess my <b>Java Spring Boot</b> application's performance.</li></ul>	