

# Rachna Kumar

## Web Development

Versatile and detail-oriented **Full Stack Developer** with a strong foundation in **JavaScript, Html, CSS, React, Python, Java, and AWS** seeking to leverage technical skills in photon-counting technology and advanced imaging solutions. Passionate about backend development and data visualization, with hands-on experience designing **REST APIs**, managing databases, and deploying cloud solutions. Eager to contribute to impactful projects that advance imaging technologies while continuously learning under expert mentorship. Additionally, knowledgeable in **containerization (Docker/Kubernetes)** and **microservices architecture**. Excels in collaborative, international environments, working effectively in **Agile teams** to develop impactful projects.



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## TECHNICAL SKILLS

Front-end Development: HTML, CSS, JavaScript, TypeScript, React.js, Vue.js, React Native

Back-end Development: Node.js, Express.js, Firebase, MongoDB, SQL, PostgreSQL

CMS & Design: WordPress, Figma

Programming Languages: Python, Kotlin, Java

Hardware & Embedded Systems: Arduino, Raspberry Pi

Testing & Automation: Robotic Testing Framework

Version Control & Tools: GitHub, Bootstrap



## EDUCATION

### Bachelor's in Information Technology

Oulu University of Applied Sciences (OAMK)

08/2022 - Present

Oulu, Finland

About the degree

- My degree mainly focusses on web & mobile development, cloud computing, IoT, and database management with hands-on projects.

### Higher Diploma in Software engineering

Aptech Institute

06/2019 - 01/2022

Karachi, Pakistan

About the diploma

- Completed a 2-year program covering web & mobile app development, database management, UI/UX, with hands-on projects using HTML, CSS, JavaScript, PHP, .NET, Java, C#, Kotlin, SQL, and MySQL.



## CONFERENCES

### QLeap: Sprint 8 Review & Final Sprint Planning

Conference/Issuer of the certificate

- Presented my poster, "**Zero Downtime on Cloud Computing**," in Jyväskylä on August 27th at during the QLeap poster session and final SG.



## WORK EXPERIENCE

### IT Associate

University of Jyväskylä, Faculty of Information Technology

05/2024 - 10/2024

Jyväskylä, Finland

#### Achievements/Tasks

- Researched cloud deployment strategies to achieve zero downtime, focusing on **continuous availability for cloud-based applications**.
- Compiled a technical report detailing **zero-downtime deployment techniques**, emphasizing **scalability and automation**.
- Gained hands-on experience with **AWS, Azure, and Google Cloud**, specializing in **load balancing, automated deployments, and backend scalability**.
- Applied **Python scripting** for automating cloud infrastructure tasks, aligning with backend development skills.

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### Frontend Developer

DA Tech

05/2022 - 08/2022

Karachi, Pakistan

#### Achievements/Tasks

- Developed and optimized a **content management platform** and additional applications using **Vue.js, Firebase, and WordPress**, improving functionality and user engagement.
- Designed intuitive, **user-centered interfaces**, incorporating usability principles and user feedback to enhance the overall **UI/UX experience**.
- Ensured **code quality, maintainability, and modular design**, following best practices in **JavaScript and TypeScript** for scalable applications.
- Participated in **daily Scrum meetings, sprint planning, and Agile development**, enhancing collaboration in an **international development team**.



## PERSONAL PROJECTS

### Train light simulator project (2025)

- GitHub Repository: Industry project for TechnoWare with a strong UI/UX focus. Built using HTML, CSS, and integrated with Raspberry Pi to control a light simulation system | [GitHub - RachnaRajinder/train-simulator: The project aims to simulate industrial communication protocols \(e.g., CIP, TRDP\) for controlling lighting systems in trains.](#)

### Mobile Development Project (2024)

- GitHub Repository: Second-year final project developed using React Native and Firebase for real-time data management. | [GitHub - Mobile-Dev-Project/Mobile-App: This is a project of a mobile app for Mobile Development Project](#)

### Summer Drone Project (2024)

- GitHub Repository: Industry-focused project integrating with the Parrot Anafi Drone. Developed in Kotlin for drone control and real-time data streaming | [GitHub - https://github.com/SkySight-Stream](#)

### Java Game Project (2024)

- GitHub Repository: Created a fun and challenging Guess Number game in Java, blending logic with player engagement—dive into the code | [https://github.com/RachnaRajinder/Java\\_game\\_application/tree/master/JavaFinalProject](https://github.com/RachnaRajinder/Java_game_application/tree/master/JavaFinalProject)

### Advance Web Application Project (2023)

- Consumer App | Touchscreen App | Driver App | Server: Fourth-semester project built with React Native and Node.js. Developed multiple interfaces for consumers, drivers, and the admin panel. | [GitHub - https://github.com/Oamk-DIN22SP Project](#)

### E-Commerce Website (2022)

- Live Project: First-semester project focused on online mobile shopping. Designed and developed the interface using HTML and CSS | [Ecommerce](#)



## LANGUAGES

English

Native or Bilingual Proficiency

Urdu

Full Professional Proficiency

Finnish

Limited Working Proficiency



## REFERENCES

Dr. Teerath Das

"Postdoctoral Researcher at the University of Jyväskylä"

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