

Rachana Kumar

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Enthusiastic bachelors graduate student with a year of internship experience, seeking a dynamic software engineering job opportunity. Eager to leverage my strong technical proficiency and adaptability to work with diverse tech stacks.

EDUCATION

Reva University

August 2019 – July 2023

Bachelor of Technology of Electronics and Computer Engineering

CGPA - 9.31/10

Courses : Data Structures and Algorithms, DBMS, Programming languages, Computer Architecture, Digital Electronics, Data science

WORK EXPERIENCE

Telestream - Software Engineer Intern

February 2022 – July 2023

- Worked on PRISM product backend development. PRISM is a real time IP/SDI monitoring and analysis platform whose major customers are SONY, HBO, Netflix, Apple, CNN, Intel, NBC etc.
- Implemented 20+ feature enhancements in Audio and waveform applications and fixed 30+ bugs in less than 4 months that aided in successful implementation of various features and played a crucial role in attaining product objectives.
- Implemented backend in C++, fixed UI defects using JavaScript to enrich user experience.
- Used Agile methodology as project management approach and practiced SDLC for development.

Bosch Ltd - Hybrid Tester Of Smart Solution Systems

July 2022 – January 2023

- Championed rigorous Quality Assurance for pivotal smart subsystems driving Bosch's campus towards smart campus excellence. Spearheaded critical contributions across 5 out of 14 visionary subsystems.
- Orchestrated 300+ User Acceptance Testing (UAT) for mission-critical components. Played a pivotal role in ensuring seamless functionality and user satisfaction across these groundbreaking innovations.
- Instrumental in reducing system downtime by an impressive 80%, underscoring the vital role in enhancing overall efficiency and reliability.

SKILLS

Technical Proficiency: Java, C/C++, Python, MySQL, MS Excel, Bit-Bucket, JIRA, Node-Red, Docker, Javascript, HTML, CSS, API's.

Non-Technical Proficiency: Dance, Badminton, Table Tennis.

Training: Machine Learning - Python in Data Science, Python Bootcamp, Strivers A-Z Java Course .

PUBLICATIONS

- “**Camouflage surveillance system**” at 2023 **IEEE** Fifth International Conference on Advances in Electronics, Computers, and Communications (ICAEECC), Bengaluru, India
- “Design and Development of Automated Loading Dock for **Local Anaesthesia Deployment**”–Published in November 2022 at **Intellectual Property**, India - Application Number 202141047093.

PROJECTS

Multipurpose Camouflage Robot

Technologies - ESP 8226 NodeMCU, Raspberry Pi, GSM Communication

- Designed and operationalized a versatile camouflage robot employing an Embodied Semantic Perception model for adaptive concealment and strategic mobility

Automated Loading Dock

Technologies - Matlab, Python, Hydraulic Systems

- Engineered and brought to fruition an innovative 3D-printed Loading Dock, showcasing an ingenious mechanism for precise and controlled administration of Local Anaesthesia onto syringes with <5% error margin.

Gym Exercise Tracker

Technologies - Python, Medipipe

- Architected and delivered a comprehensive exercise tracker endowed with multitasking prowess, while seamlessly mobilizing real-time notifications and alarms upon task fulfillment or instances of cautious overexertion for 20+ variations.

EXTRA CURRICULAR

- Led and choreographed over 20 impactful technical and cultural events, including Arambha 2020, Harmonics 2021, and Archisha 2022, through "**FORCE**" - Forum of REVA for Communications and Electronics.
- **NGO WORK:** Worked as a volunteer for **orphan kids** welfare at Don Bosco, Chitradurga.

ACHIEVEMENTS

- **REVA Hack 2021** - Placed 9th among 650+ teams in the National Level Hackathon for “Gym Exercise Tracker”.
- State Level - **KSCST** project funding for **Camouflage Surveillance System**
- Awarded with “**Best Academic Performer**” in Bachelor’s degree
- Bagged several medals in **Athletics** during High school.