

# Soumya Ranjan Patnaik

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soumya-rp

SoumyaRanjanPatnaik

## EDUCATION

**International Institute of Information Technology, Naya Raipur**  
*B, Tech, Computer Science - CGPA - 8.48*

**Dec 2020 – Jul 2024**  
*Chattisgarh, India*

**Notre Dame School**

*Class XII - PCM Percentage: 94.2%*  
*Class X - PCM Percentage: 85 %*

**Delhi, India**  
*May 2018 - May 2019*  
*May 2016 - May 2017*

## PROJECTS

**Social IIITNR** | [Live](#) [Source](#)

**Feb 2022**

- Successfully created Social IIITNR, Social Media Application for **IIIT Naya Raipur**, aimed to promote coding culture, share achievements, monitor opportunities and manage events.
- Utilized **neo4j** graph for modelling the interactions between the different entities of the application in an optimised and reliable manner. This includes searching and filtering posts, finding mutual followers and recommending content.
- Implemented **user authentication using OAuth2.0 and JWT tokens** with a role based resource authorisation system to prevent unauthorised access or modification of private/protected resources.
- Tech Stack:** ReactJs, TypeScript, NestJs, PostgreSQL, NodeJs, Android, Kotlin, Golang, Go-Chi, GraphQL, Gqlgen

**iCAP: IoT Based Health Monitoring and Fall Detection System** | [Source](#)

**Aug 2021**

- Created a real-time wearable for health monitoring and accidental fall detection of remotely working maintenance people.
- Features include pulse monitoring, a novel pulse rate-based attendance tracking mechanism, calculating duration of work and a false positive prevention mechanism for fall detection.
- Research paper highlighting the idea and implementation for this project was accepted for I2CT 6th International Conference By IEEE.
- Tech Stack:** HTML, CSS, JavaScript, Python and Django

**PyMail: A python based desktop email client** | [Binary](#) [Source](#)

**Jul 2021**

- Supports both html and rich text formatted emails, along with extensions. The extensions with image and video MIME types can be previewed and opened from within the application itself.
- The users are authenticated using OAuth 2.0, hence allowing the user to login to their mail account securely, without needing to physically type in their password.
- Tech Stack:** HTML, CSS, JavaScript, Python, PythonEel, PyInstaller

## Experience

**Webknot Technologies**

**Mar 2022 – Present**

*Full Stack Web Development Intern*

*Raipur, Chhattisgarh*

- Worked on Palette PAWs, an administration and management solution for an EdTech startup.
- Worked on the authentication and login flow of the application.
- Learned to recreate designs provided by UI/UX teams using HTML, CSS and Js while utilizing frameworks like Material UI (MUI)

## SKILLS

- Languages:** C, C++, Rust, Python, Java, JavaScript, TypeScript, SQL, NoSQL, Golang
- Developer Tools:** VS Code, NeoVim, Sublime Text, Git, GitHub
- Platforms:** Linux, Windows, Arduino
- Technologies/Frameworks:** ReactJS, NestJS, NodeJS, ExpressJS, Electron, Django, Numpy, Matplotlib
- Databases:** MySQL, PostgreSQL, MongoDB, Neo4j