SOUMYA RANJAN PATNAIK

Raipur,Chhattisgarh

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EDUCATION

International Institute of Information Technology, Naya Raipur **Dec 2020 – Jul 2024**
B, Tech, Computer Science - **CGPA** *-* **8.23** *Chattisgarh, India*

Notre Dame School **Delhi, India**
Class XII - PCM ***Percentage: 94.2%*** *May 2018 - May 2019*
Class X - PCM ***Percentage: 85 %*** *May 2016 - May 2017*

PROJECTS

Social IIITNR | Live Source **Feb 2022**
- Successfully created Social IIITNT, 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.
- Implemented a novel pulse rate-based attendance tracking mechanism for maintenance workers.
- Implemented a false positive prevention mechanism for fall detection to prevent unnecessary panic in the workplace.
- Research paper highlighting the idea and implementation for this project was accepted for I2CT 6th International Conference By IEEE.
- **Text Size: 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 extentions 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**

SKILLS

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