PRADEEP AROULMOJI
Software Engineer

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SKILLS

BACK END DEVELOPMENT: Python, Java, C, C++

MISCELLANEOUS: Machine Learning, Deep Learning, MySQL, MatLab, Git

FRONT END DEVELOPMENT: HTML, CSS

HIGHLIGHTED SOFT SKILLS: Creativity, Decision Making, Teamwork

EXPERIENCE

11/2023 – 03/2024   **JUNIOR SOFTWARE ENGINEER | INTERNSHIP**   **INSIEL S.P.A (Italy)**

- I designed and implemented an Audio Surveillance System Prototype based on Machine Learning from scratch using Python. This system will serve as a crucial component of a larger video surveillance infrastructure aimed at benefiting an entire region of approximately 500,000 people."
- I developed and designed the System pipeline, the machine learning model and I conducted static and dynamic analysis of code using Sonarqube on Docker to ensure code quality and reliability.

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Python / sklearn / Sonarqube
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05/2017 – 07/2017   **SOFTWARE REVIEW | HIGH SCHOOL INTENRSHIP**   **WARTSILA (Italy)**

- I Reviewed communication software such as Microsoft Teams and proposed to use them to the team as main method of communication
- I Reported back to instructor to receive day-to-day tasks and responsibilities.

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Word / PowerPoint / Teams
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EDUCATION

2019 - 2023   **Bachelor of Science: Electronic and Computer Engineering**   **Università Degli Studi Di Trieste - Trieste, Italy**

2013 - 2018   **High School Diploma**   **Liceo Scientifico Statale Galileo Galilei – Trieste, Italy**

PROJECTS

Scream Detection for Forensics   https://github.com/pradeeparoulmoji/audio-security
This Open Source prototype developed in collaboration with INSIEL, is intended for surveillance applications in urban contexts within the forensic domain. It was developed utilizing my expertise in Python along with my knowledge in audio processing and Machine Learning.

Music Label Structure Database   https://github.com/pradeeparoulmoji/Database-for-Music-Labels
A Database Design that can help emerging music labels outline their business. It comprehends database design and has an example of code written in MySQL along with its corresponding queries.

High and Low Frequency Volume Control   https://github.com/pradeeparoulmoji/Low-and-High-Frequency-Volume-Control-Circuit
An Electronic Circuit capable of controlling the volume of high and low frequencies of a signal. It was crafted leveraging my expertise in DSP and Electronics. The process involved utilizing PSPICE simulation software to refine the design which was then implemented on a breadboard.

LANGUAGES

ENGLISH - B2+, **FRENCH** - C2, **ITALIAN** - C2, **TAMIL** - A1

INTERESTS

Music Production (Composing and Song writing, 6+ years of Experience), Basic Knowledge in Cryptocurrency and Blockchain Technology, Chess, Sports.