AVISHKAR DHANANJAY PANSARE

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Software Developer

Experienced Software Development Engineer with over 3 years of expertise in Python, Django, Flask, and ReactJS. Proficient in developing robust applications in Retail e-commerce and Education domains. Currently contributing to a military project focused on RF signal technology. Problem-solving skills with a proven track record of delivering impactful solutions in collaborative environments.

TECHNICAL SKILLS

- **Languages:** Python, Javascript, Shell Script, JAVA
- **Framework:** Flask, Django, FastAPI, REACT JS
- Skills: WebSocket, Ajax, HTML, CSS

- **Data Stores:** SQL, MySQL, PostgreSQL, MongoDB
- **Cloud Services/ Tools:** AWS, Git, Docker, Heroku, JIRA, Postman

WORK EXPERIENCE

Cryonics Innovation Labs   **Sept 2022 - Present**
Software-Defined Radio Development and
Low-Frequency Signal Processing for Military Applications

- Developed software for RF-based communication to ensure secure and efficient coordination between military units in challenging conditions, including processing and decoding RF signals for detecting enemy intersections during operations.
- Utilized Python-based data processing pipelines to interface with hardware devices via ZeroMQ, ensuring seamless communication and efficient data handling.
- Designed and implemented real-time visualization of RF data using JavaScript libraries, with WebSocket enabling robust interaction between Python backends and JavaScript frontends.
- Utilized PySerial to control hardware devices, process incoming signals, and decode data and voice, ensuring high accuracy and performance.
- Implemented Cyclic Redundancy Check (CRC) and Forward Error Correction (FEC) algorithms for enhanced error detection and correction in data transmissions.
- Created and optimized a JSON file structure for lightweight database operations, enabling efficient reading, writing, and management of structured data.

Tech Stack: Python, Flask, JavaScript, MongoDB, HTML, CSS.

SRV Media   **Aug 2021 - Sept 2022**
Backend Development and Database Management for Government Websites

- Built and optimized scalable server-side applications using the Django framework, ensuring high performance and reliability.
- Designed and developed RESTful APIs to enable seamless, secure communication between front-end and back-end systems.
- Engineered and maintained PostgreSQL databases by crafting efficient schemas, writing optimized queries, and ensuring data integrity for large-scale applications.
- Strengthened application security through robust user authentication and authorization protocols, data encryption, and adherence to secure coding practices.

Tech Stack: Django,DRF, HTML, CSS, and Javascript

EDUCATION

Master Of Computer Science Pune university, India	SGPA - 9.6	2020 - 2022
Bachelor Of Computer Science Pune university, India	Percentage - 75%	2018- 2020