Dhrub Walia

Software Developer

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Portfolio

Linux C/C++ · IoT · Blockchain

SUMMARY

Software Developer with 6+ months professional experience specializing in Linux C/C++ applications, IoT product compliance, and blockchain solutions. Proven expertise in system architecture, multithreaded programming, STQC certification, and full-stack development. Strong academic background with 9.05 CGPA.

PROFESSIONAL EXPERIENCE

- **Software Developer** — Jan 2026 – Present
  Bright Technologies India Pvt. Ltd. · Hybrid — *Delhi*
  - Developed smart security & IoT products for Indian market, ensuring STQC certification compliance
  - Analyzed complex source code/system architecture for quality, security, and regulatory alignment
  - Collaborated with engineering, QA, and product teams to enhance product stability & market readiness
  - Performed firmware validation, build verification, and system-level debugging across multiple components
- **Software Developer** — Sep 2025 – Dec 2025
  E-Rising India Pvt. Ltd. · On-site — *Navi Mumbai*
  - Designed and maintained Linux-based C/C++ applications for EIMOU's technology initiatives
  - Implemented multithreaded & network programming solutions, improving system performance by 40%
  - Created software design documents and participated in requirement analysis discussions
  - Collaborated with cross-functional teams to deliver scalable software solutions

TECHNICAL SKILLS

Programming: C++, C, Python, JavaScript, Solidity
Frameworks: React.js, Django, TensorFlow, Web3.js, Docker
Platforms: Linux (Ubuntu/CentOS), Git, MySQL, MongoDB, Ethereum
Methodologies: OOP, Data Structures & Algorithms, Multithreading, Network Programming, System Architecture
Domains: IoT, Smart Security Systems, STQC Certification, Blockchain, AI/ML, Full-Stack Development

PROJECTS

- **Skin Assist: AI-Powered Skin Disease Detection** — *Django, VGG-19, Python, Machine Learning*
  - Achieved 95% accuracy detecting 10+ skin diseases using fine-tuned VGG-19 model
  - Reduced dermatologist search time by 70% with geolocation-based finder
  - Built NLP chatbot handling 200+ daily queries for preliminary diagnosis
- **Decentralized Voting System** — *Solidity, React.js, Web3.js, Blockchain*
  - Engineered tamper-proof smart contracts on Ethereum testnet with zero discrepancies
  - Created React frontend processing 1,000+ votes, reducing tally time by 90%
  - Implemented real-time vote tracking and transparent verification system
- **Employee Management System** — *C++, OOP, Data Structures, File Handling*
  - Designed file-based system handling 10,000+ records with O(log n) search efficiency
  - Prevented data duplication using hash-based verification, ensuring 100% data integrity
  - Implemented CRUD operations with exception handling and data persistence

EDUCATION

- **Bachelor of Science in Information Technology** — Jul 2022 – May 2025
  University of Mumbai · CGPA: 9.05/10 — *Navi Mumbai*
  - Relevant Coursework: Data Structures & Algorithms, Database Systems, OOP, Blockchain, Web Technologies
  - Achievements: Graduated with distinction; Strong academic foundation in software engineering principles