

WINEEL WILSON DASARI

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Technical Skills

Programming Languages & Frameworks: C, C++, Java, Python, HTML, CSS, JavaScript, Django, Flask, React, Flutter
Systems & Security: Operating Systems, Advanced OS, Computer Networks, Cryptography & Network Security, System Design, Concurrency, File Systems, Process Scheduling
Databases & Backend Technologies: SQLite, SQL, PostgreSQL, SQLAlchemy, Firebase, Blockchain
Development Tools & Platforms: Linux, VS Code, GitHub, Git, Postman, Jupyter Notebook, Visual Studio, Makefile, Maven, Docker, Wireshark
Software Engineering: Object-Oriented Programming (OOP), MVC Architecture, REST APIs, Authentication, Web API Design, Version Control, Secure Coding Practices

Projects

Blockchain Vaccine Safety System | *Blockchain, Database, Security* (GitHub in progress)

- Designed a blockchain-based system to securely track and verify vaccine data with immutable ledger storage
- Implemented role-based access control, hashed identifiers, and audit trails to ensure secure, transparent healthcare records
- Integrated backend database with verification workflows for scalability, data integrity, and traceability

Certificate-less Data Integrity Checker | *Web, Database, Security* (GitHub in progress)

- Built a web-based tool to verify collaborative group data without reliance on digital certificates
- Applied cryptographic hashing, challenge-response validation, and secure database practices for reliable verification
- Designed lightweight, scalable verification flows to support efficient group data integrity checks

GardenSim – Computerized Garden Simulator | *Java, JavaFX, OOAD, MVC, Log4j2, Maven* | [GitHub](#)

- Developed an event-driven simulation with plant growth, seasons, and sensors using concurrency (Timeline + background threads)
- Applied OOAD principles and MVC design for modular subsystems, ensuring testability and maintainability
- Integrated Log4j2 structured logs and JSON config for reproducible headless survivability testing

QuickBill – C-based Shopping Billing Application | *C, Makefile, CSV File I/O* | [GitHub](#)

- Implemented a terminal billing system in C with CSV product management, secure credential handling, and automated bill generation
- Enhanced reliability with input validation, modular C design, and cross-platform Makefile support (Linux/macOS/Windows)

Experience

Software Developer Intern

May 2025 – Present

Frugal Innovation Center – Bilingual Math Learning App

Santa Clara, CA

- Engineered core application modules in Flutter/Dart with focus on system reliability, performance optimization, and secure data handling
- Implemented tutorials, quizzes, and real-time language switching with efficient state management and concurrency-safe updates
- Profiled and optimized performance for offline execution and low-end devices, improving resource utilization and scalability
- Collaborated with educators and stakeholders to align features with accessibility standards while maintaining robust security practices

Education

Santa Clara University

Santa Clara, CA

Master of Science in Computer Science and Engineering

Sep 2024 – Jun 2026 (Expected)

QIS College of Engineering and Technology

Ongole, India

Bachelor of Technology in Computer Science and Engineering

Aug 2019 – May 2023