Korrapati Yashwanth Reddy

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Education

VELLORE INSTITUTE OF TECHNOLOGY, VELLORE Aug 2021 – Present
Integrated Master of Technology in Software Engineering **CGPA:** 8.03
Coursework: Operating Systems, Computer Networks, Cloud Computing, DSA, Software Engineering, DBMS.

SRI CHAITANYA JUNIOR COLLEGE Jul 2019 – Mar 2021
Higher Secondary Education **Percentage:** 91.7

Work Experience

TechBairn – Full Stack Developer Intern June 2023 – Oct 2023

- Developed a full-stack Campus Incident Management System supporting 500+ users for secure incident reporting, tracking, and management.
- Built 5+ key modules including user authentication, reporting, disciplinary actions, and dashboards using Chart.js, Leaflet.js, FullCalendar.js.
- **Tech-Stack:** HTML, CSS, JavaScript (frontend); PHP (backend); MySQL (database); Optimized for scalability and performance(handling 10K+ records efficiently).

Projects

Checkmate AI: Voice-Guided Chess with Smart Move Predictions Aug 2023 – Dec 2023

- Created voice-controlled chess interface using Google Speech API for hands-free gameplay with real-time move input.
- Implemented Minimax with Alpha-Beta pruning, Bitboards, multithreading; 10K+ evaluations/sec, <1 sec latency.
- Planned Stockfish integration for advanced AI move predictions in future iterations.
- **Tech stack:** Python, Google Speech API, Bitboards

Secure Information Retrieval in Military Networks Jan 2024 – May 2024

- Implemented CP-ABE secure retrieval system with 3 key authorities for controlled access in disruption-tolerant networks.
- Designed key distribution enabling revocation, collusion resistance, tested with 50+ users, 100% access accuracy.
- Simulated 10+ attack scenarios to validate unauthorized access prevention and system resilience.
- **Tech stack:** Java, RSA, AES

IoT-Based Automated Smart Parking Management System Nov 2024 – Jan 2025

- Architected IoT parking system with Arduino, IR sensors, servo motors, and cloud DB for real-time monitoring.
- Integrated LCD display for live slot availability; ensured real-time sync between hardware and cloud database.
- Deployed automated barrier control and web interface; prototype scaled for 10 slots, 95% detection accuracy.
- **Tech stack:** Arduino IDE (C), IoT hardware

Technologies

Programming Skills: C, C++, Java, DSA, SQL, Python.
Web Technologies: HTML, CSS, JavaScript, PHP, Perl.
Tools: Jupyter Notebook, Google Colab, Cisco Packet Tracer, Git, Selenium, VS Code.
Cloud: Cloud: AWS (SAA-C03 - in progress).

Certifications

- Robotic Process Automation by Automation Anywhere Automation 360: **View Certificate**
- Java Programming Certification – Duke University: **View Certificate**
- AWS Certified Solutions Architect – Associate (SAA-C03) – **In Progress**

Extra-Curricular

- **Student Coordinator, ic-ETITE Conference 2024:** Led student coordination and contributed to event design.
- **IEEE PCS Club Member, 2023:** Enhanced technical and professional communication through IEEE PCS.