

EDUCATION

Dhanalakshmi College of Engineering Bachelor of Engineering (B.E.) – Electronics and Communication Engineering; CGPA: 7.8/10 Government Boys Higher Secondary School Higher Secondary (HSC) – State Board; Percentage: 75%	Chennai, India October 2021 – May 2025 Pattukottai, India June 2020 – March 2021
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SKILLS SUMMARY

• Languages:	Java, Python, SQL, MYSQL
• Tools:	Git, GitHub, Eclipse, VS Code
• Web Technologies:	HTML5, CSS3
• Concepts:	Object Oriented Programming(OOP's) ,JDBC
• Soft Skills:	Quick Learner, Team Collaboration, Time Management, Communication Skills

INTERNSHIP EXPERIENCE

Software Developer Intern Prodigy Infotech LINK	August 24 – September 24
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- Developed **Java console-based applications** including a Number Guessing Game, Sudoku Puzzle, and Contact Manager with add/save/delete features.
- Implemented **JDBC with SQL databases** for persistent data storage and retrieval in the Contact Manager project.
- Enhanced application reliability by applying **OOP principles, exception handling, and modular design**, improving maintainability and reducing errors.
- Used **Git and GitHub** for version control, ensuring smooth collaboration and structured code management during development.
- Contributed to an **Agile team environment**, practicing clean coding standards and delivering functional software modules within deadlines.

PROJECTS

AI-Powered E-Bus Safety Enhancement Using (CREM) LINK	March 2025 – May 2025
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- Developed a **real-time AI-based driver drowsiness detection system** using Python with **facial landmark detection** and the **Eye Aspect Ratio (EAR) algorithm**, achieving 92% accuracy in detecting eye closure.
- Integrated **Continuous Rapid Eye Motion (CREM) monitoring** with **fuzzy logic AI**, enabling adaptive alert generation and decision-making based on driver fatigue levels.
- Established **serial communication between AI-powered detection in Python and Arduino hardware**, triggering buzzer alerts and autonomous mode activation during drowsy states.
- Implemented a **modular AI-driven software design** combining Python-based detection with Arduino control logic, reducing false alerts by 30% and improving real-time response speed.

Console-Based Contact Save System LINK	January 2025 – February 2025
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- Built a **Java-based console application** to manage contacts, enabling **add, update, search, and delete (CRUD) operations** for efficient record handling.
- Integrated **JDBC with SQL database**, ensuring persistent storage and reliable retrieval of contact information.
- Applied **Object-Oriented Programming (OOP) principles** such as encapsulation and modular design, improving maintainability and scalability of the codebase.
- Enhanced usability by implementing **input validation and exception handling**, reducing runtime errors and ensuring smooth user interaction.

CERTIFICATES

Java SE 21 Development (Udemy) CERTIFICATE <ul style="list-style-type: none">◦ Learned Java SE 21 fundamentals including OOP principles, exception handling, collections, and multithreading.◦ Built console-based applications demonstrating Java features and modern best practices.	July 2025
SQL (Udemy) CERTIFICATE <ul style="list-style-type: none">◦ Gained strong understanding of SQL queries, joins, subqueries, and database design concepts.◦ Practiced building and managing relational databases, improving data retrieval efficiency.	August 2025
Google Cybersecurity (Coursera) CERTIFICATE <ul style="list-style-type: none">◦ Acquired knowledge of cybersecurity principles, network security, encryption, and threat management.	October 2023