

Karthikeyan

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Summary

A passionate Computer Science Engineering student with a strong foundation in backend development, **ethical hacking**, and **blockchain technology**. Proficient in **Java**, Python, **SQL**, and server-side JavaScript, with expertise in **smart contract creation** and blockchain development. Completed over 50 online courses and **10+ major projects**, demonstrating a continuous drive to learn, innovate, and build secure, robust systems.

Languages and Frameworks

java programming, python programming, Kotlin, C++, JavaScript, SQL, Node.js, React.js, Spring boots in Java, .NET Framework, PyTorch

Skills

Leadership, Backend Development, Ethical Hacking, Server-Side JavaScript, Smart Contract Creation, Solidity, Computer Literacy, Communication Skills, Cybersecurity, Project Management, Project Coordinator, Executing, Project Coordination, Planning, Collaboration

Projects and Experience

1. Penetration Testing and Security Audit for a Web Application (Ethical Hacking Expert)

- **Duration:** April 2024 – August 2024
- **Description:** Led a comprehensive penetration test and security audit for a web application, identifying and exploiting critical vulnerabilities such as SQL injection, cross-site scripting (XSS), and remote code execution (RCE). Provided detailed reports with actionable recommendations, resulting in a **50% reduction in potential security risks** and improved security measures, including access control and secure coding practices. Used tools like Nmap, Metasploit, and Burp Suite.

2. Media Portal (Backend Developer)

- **Duration:** January 2024 – May 2024

- **Description:** Developed and maintained backend systems for a media portal handling **100+ daily users**. Improved database query efficiency by **30%** and optimized server-side logic for faster content delivery. Collaborated with front-end developers to implement new features and secure API integrations, resulting in a **20% improvement in system performance**. Used Node.js, SQL, and RESTful APIs.

3. Decentralized Storage (Smart Contract and Blockchain Developer)

- **Duration:** August 2023 – February 2024
- **Description:** Designed and implemented smart contracts to ensure secure and transparent data storage on the blockchain, improving data integrity and accessibility. The project can handle **100+ secure storage transactions per day**, ensuring **100% data availability** with no downtime. Enhanced blockchain security by implementing robust encryption methods.

4. AI Chatbot (Backend Developer and AI Developer)

- **Duration:** August 2023 – January 2024
- **Description:** Designed and implemented backend architecture for an AI chatbot which can be used by **500+ daily users**. Integrated AI algorithms to deliver seamless user interactions, increasing response accuracy by **40%**. Reduced API response time by **25%**, leading to more efficient and real-time user communication.

5. 3D Game (Game Developer)

- **Duration:** May 2023 – July 2023
- **Description:** Developed key game mechanics for a 3D game, enhancing gameplay performance by **30%** through optimized code and rendering techniques. Collaborated with a team to deliver a highly engaging and immersive experience, achieving **95% player retention** during beta testing.

6. Mobile Device Jailbreaking and Security Analysis (Cyber Security Specialist)

- **Duration:** May 2022 – August 2022
- **Description:** Led a project on mobile device jailbreaking and security analysis, identifying and addressing **10+ security vulnerabilities**. Successfully simulated attacks and developed mitigation strategies, reducing risk exposure by **60%**. Enhanced overall mobile device security through advanced penetration testing techniques.

Bootcamps

1. Git & GitHub Bootcamp (LetsUpgrade)

- **Completion Date:** 16th September 2024
- **Duration:** 5 Days

- **Description:** Completed an intensive bootcamp focused on Git version control and GitHub for source code management. Gained practical skills in branching, merging, and managing repositories, along with best practices for collaboration and version control.
- **Certificate Verification:** [Verify Certificate](#)

2. JavaScript Bootcamp (LetsUpgrade)

- **Completion Date:** 15th September 2024
- **Duration:** 5 Days
- **Description:** Completed a bootcamp covering core JavaScript concepts, DOM manipulation, and best practices. Enhanced skills in creating dynamic and interactive web applications.
- **Certificate Verification:** [Verify Certificate](#)

3. Machine Learning using Python Bootcamp (LetsUpgrade)

- **Completion Date:** 2nd August 2024
 - **Duration:** [Include duration if known]
 - **Description:** Completed a bootcamp focusing on building machine learning models using Python, including practical experience with libraries such as scikit-learn and TensorFlow.
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Education

BTECH(CSE)

VEMU institute of technology • Chittoor, Andhra Pradesh
05/2026

INTERMEDIATE -80%

Sri Chaitanya JR college • Chittoor, Andhra Pradesh
7/2020 – 4/2022

SSC – 9.8

Brundavan school • Chittoor, Andhra Pradesh
5/2020

Courses and Certifications

- AWS-DEVOPS-1: DevOps on AWS: Code, Build, and Test

- CAD0321EN: Full Stack Application Development Project by IBM
 - LEAD1x: Exercising Leadership: Foundational Principles by HarvardX
 - CSX0001: Computer Science 101 in Stanford online
 - LFS101x: Introduction to Linux by The Linux Foundation
 - IT.1.3x: Introduction to Java Programming: Fundamental Data Structures and Algorithms in Charles III University of Madrid (UC3M)
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Social media platforms and Competitive Platforms

- GitHub: <https://github.com/theanimenexus>
- LinkedIn: <https://linkedin.com/in/km816>
- Leetcode :<https://leetcode.com/u/karthik007s/>
- Hacker rank: <https://www.hackerrank.com/profile/karthik816ml>