

Kartik Kala

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PROFESSIONAL SUMMARY

Versatile Backend & Fullstack Developer with a proven ability to build secure, scalable systems that power real-world applications end-to-end. From AI-powered resume tools to self-hosted cloud drives, I deliver high-impact solutions with measurable results. I combine deep system-level expertise with modern web technologies to create fast, reliable, and maintainable software.

SKILLS

- **Programming Languages:** C++, JavaScript (Node.js), Java (Spring Boot)
- **Frameworks/Tools:** Node.js, Express.js, React.js, Redux, RESTful APIs
- **DevOps :** Linux (Arch), Docker, Git, Jenkins
- **Databases:** MongoDB, MySQL, MariaDB
- **Security:** TLS/SSL, JWT Authentication, Role Based Access Systems
- **Testing:** Mocha, Chai, Selenium, Postman (for API testing)
- **Soft Skills:** Problem-Solving, Adaptability, Time Management

PROJECTS

AI-Powered ATS Resume Checker

May 2025 – Present

- Built the backend for a modular AI-powered resume screening tool using **Spring Boot**, integrating job-role alignment, keyword matching, and formatting validation.
- Designed and implemented a custom authentication system, enabling modular integration for future extensions.
- Currently in active development; aims to provide real-time resume feedback and ATS compatibility scoring upon completion.

E-Sports Tournament Website

Dec 2024 – March 2025

- Engineered a complete tournament management platform with authentication, payment module integration, and admin dashboard.
- Designed to scale efficiently for high concurrent users with **Node.js, Express, React.js, Docker** and **MongoDB**
- Implemented RESTful APIs and tested API endpoints for performance and security.
- Developed and tested all core modules in a production-ready state using sandboxed environments and test data.
- Project was completed but not deployed due to client discontinuation.

Personal Cloud Drive

Aug 2023 – July 2024

- Built a self-hostable, S3-inspired cloud storage system with secure file uploads, retrieval, and streaming.
- Achieved 90% API test coverage and reduced deployment errors by 35% via Jenkins CI/CD.
- Designed REST API to support chunked uploads and range-based streaming for large files.
- Used by 15 peers as a private media and document backup solution.

Secure Boot Signature Automation

Nov 2024 – Dec 2024

- Automated secure boot integrity by scripting a tool to detect and sign all bootable EFI binaries using sbctl on Arch Linux.
- Strengthened **boot security** by ensuring only **verified binaries** are loaded.
- Reduced **manual signing time by 80%**, improving **system reliability**.
- Integrated into personal Linux system for secure custom boot workflows.

PROFESSIONAL EXPERIENCE

Technical Content Writer (Freelance)

GeeksforGeeks | May 2022 – May 2023 (Remote)

- Published 7 high-impact articles (1M+ total views) on topics like system programming, Docker, and OS fundamentals.
- Notable articles:
 - "Introduction to Operating System" — 949,000+ views
 - "typedef in C++" — 170,000+ views
 - "Create a Docker container from existing image" — 40,000+ views
- Recognized for simplifying technical concepts and maintaining clarity across complex tutorials.

EDUCATION

- **Lovely Professional University** Punjab, India
Master of Computer Applications Aug 2024 - Present
- **Hemwati Nandan Bahuguna Garhwal University** Srinagar, Uttarakhand
Bachelor of Computer Applications Aug 2021 - July 2024

EXTRA CO-CURRICULAR

- Volunteered in Corporate Social Responsibility (CSR) initiative - Kotdwar Mar 2024
- Host & Organizer – Inter-School Coding Competition - IHMS Kotdwar Feb 2024
- Gold Medal – State Rope Skipping Tournament - Pauri, Garhwal Nov 2018