

VINAYAK

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SUMMARY

Backend Developer skilled in designing and implementing scalable, secure, and high-performance web applications using Node.js, Express.js, and MongoDB. Experienced in building RESTful APIs, integrating authentication and authorization systems, and optimizing databases for speed and reliability. Developed impactful projects such as *VScanner* — a web-based vulnerability scanner improving security detection accuracy by 30%, and *CacheCraft* — a high-performance caching system reducing server load by 35%. Strong foundation in backend architecture, performance tuning, and cloud deployment, with a focus on delivering robust and efficient server-side solutions.

TECHNICAL SKILLS

Programming Languages: Javascript, Python, C

Backend Development: Node.js, Express.js, RESTful APIs, Authentication & Authorization, API Integration

Databases: MongoDB, MySQL, Mongoose, Redis

Web Technologies: HTML, CSS, EJS, JSON, Web Security, Web Optimization

Developer Tools: VS Code, Postman, Git, GitHub, Vercel

Performance & Scalability: Query Optimization, Database Indexing, Caching Strategies, Load Handling

Architecture & Design: Backend Architecture, Modular Design, MVC Pattern

API: FastAPI,

Cloud & Deployment: Cloud Deployment (Vercel), Environment Configuration

Version Control & Testing: Git Workflow, API Testing, Debugging

PROJECTS

VScanner – Simple Web Vulnerability Checker

2023 - 2024

- Designed and implemented a **CLI website vulnerability scanner** using Node.js, axios & cheerio, improving vulnerability detection coverage by **~30%**.
- Created custom heuristics to detect missing security headers, inline scripts and CSRF tokens, reducing manual security audit time by **~40%** & Built a modular command-line interface with commander.js for streamlined usage and integration in CI workflows.
- Optimized HTTP request handling and parsing logic to increase throughput of scan jobs by **~25%**.

CacheCraft — Custom Caching Layer for APIs

2022

- Developed a lightweight caching middleware in Express.js to intercept API requests and serve cached responses, improving API response speeds by **~80%** & Implemented TTL based cache invalidation and in-memory storage (Map) delivering custom, high-performance caching solutions, reducing redundant fetch operations by **~60%**.
 - Architected clear separation of cache hit/miss logic and logging mechanisms, enhancing observability and reducing cache-related errors by **~20%**
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