Abhinav Ganeshan Kalpathy

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EDUCATION

Vellore Institute of Technology - 8.45 Vellore, Tamil Nadu, India
B. Tech in Computer Science and Engineering *2022 - Current*

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, JavaScript, TypeScript, Go
Frameworks and Tools: Next.js, Express.js, GoFiber, Zustand, TanStack, Docker, Postman, RabbitMQ, Burp Suite, NMAP, Metasploit
Databases and Cloud Services: MongoDB, MySQL, PostgreSQL, Amazon Web Services (AWS)

WORK EXPERIENCE

Adobe - *Cybersecurity Intern* *May 2025 – July 2025*
- Developing malware detection systems powered by large language models (LLMs) to identify and flag vulnerable websites, enhancing web security. Certificate

Warbler.Pro - *SDE Intern* *May 2024 - Apr 2025*
- Led the development of Warbler.Pro, a full-stack web platform for AI-driven social media content generation. Built an intuitive interface and engineered the overall infrastructure using Next.js and AWS (DynamoDB, S3, Amplify, EC2). Certificate

Peritys - *SDE Intern* *Jun 2024 - Mar 2025*
- Developed new Project Management Portal and Landing Page for Tribal Welfare Department, Government of Tamil Nadu, incorporating i18next for multilingual support in Tamil and English.
- Built an admin dashboard for HaaNaa, a betting platform, enabling administrators to efficiently create and manage events, oversee operations, and access analytics. Certificate

Stride.ai - *SDE Intern* *Jun 2024 - Jul 2024*
- Developed user-friendly interfaces for NLP solutions, optimizing the overall user experience.
- Standardized frontend projects by creating a reusable template with consistent state management, error handling, and login/signup functionality, reducing development time and ensuring maintainable code structure. Certificate

PROJECTS

Trader.pro - *Next.js, FastAPI, Go, MongoDB, PostgreSQL, AWS* *Apr 2025*
- Designed and engineered Trader.pro, a full-stack paper trading platform enabling users to simulate and test trading strategies on historical data using a real-time engine with time-travel support. Integrated ICICI Breeze APIs for market data, implemented Firebase Authentication for secure user management, and built scalable Go/FastAPI microservices deployed via AWS.
- GitHub Links: Frontend, Backend.

Papers by CodeChef-VIT - *Next.js, MongoDB, Cloudinary* *Jun 2024 – Present*
- Led and actively contributed to the development of papers.codechefvit.com, a platform providing VIT students access to previous year question papers. Built an admin dashboard for managing uploads, integrated Google Analytics for behavior tracking, Gemini for automation and helped the platform scale to nearly 40k active users during exam seasons.
- GitHub Links: Monorepo.

ACHIEVEMENTS/RESPONSIBILITIES

- **Yantra'24 Central Hack Winner:** Made a seller app (PWA) integrating ONDC using Typescript with AI-based Cataloging. Won best project in Track Good Wealth and Economic Growth. Link
- **AWS Certified Solutions Architect - Associate:** Earned certification validating expertise in designing scalable, secure, and cost-optimized cloud solutions. Link
- **Projects Head, CodeChef-VIT:** Planned and organized projects to timely completion while mentoring members and ensuring high code quality through PR reviews.