KARTHIKEYAN PRABAKARAN

Junior Software Developer | Vibe Coding | Full-Stack Developer | AI Automation Engineer

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PROFILE

Builder-focused Software Developer and B.Tech Artificial Intelligence & Data Science graduate with hands-on experience building full-stack applications, SaaS products, AI-powered systems, automation workflows, data pipelines, and rapid MVPs.

Experienced in AI-assisted development and vibe coding, using modern AI development tools to move quickly from requirements and ideas to working software. Comfortable across frontend, backend, APIs, databases, automation, debugging, deployment, and iterative product development.

Rather than using AI only for code generation, I use it as part of the complete engineering workflow: architecture exploration, implementation, debugging, refactoring, testing, UI iteration, documentation, and rapid prototyping.

CORE STRENGTHS

- Rapid MVP & product development
- AI-assisted software engineering / vibe coding
- Full-stack web application development
- REST API development & integration
- AI automation and workflow engineering
- SaaS product development
- Web scraping & data pipelines
- Database design & integration
- Debugging and problem solving
- Deployment and server environments
- Converting product ideas into working software

EXPERIENCE

Infowaves | AI Web Developer / Software Developer

Jan 2026 – Present

- Build client-facing web applications, internal tools, AI-powered systems, plugins, dashboards, and automation solutions.
- Develop rapid MVPs using AI-assisted coding workflows while maintaining control over application logic, architecture, integrations, and debugging.
- Build frontend interfaces and backend services using JavaScript, React, Node.js, Python, Flask, Django, and modern web technologies.
- Integrate third-party APIs, AI services, databases, messaging platforms, and automation workflows.
- Develop SaaS-style dashboards and business systems for lead management, messaging, AI chat, and workflow automation.
- Work across the complete development lifecycle from requirements and prototyping to debugging and deployment.
- Use AI development tools to accelerate repetitive engineering tasks, explore implementations, refactor code, and rapidly iterate on product requirements.
- Build solutions around real business requirements rather than isolated academic exercises.

Freelance | AI Automation & Data Systems Developer

Aug 2025 – Dec 2025

- Developed automation systems for collecting, cleaning, processing, and structuring business data.
- Built lead-generation and web-scraping pipelines using Python and browser automation.
- Automated repetitive business processes, reducing manual effort by approximately 60–70% in selected workflows.
- Created reusable automation scripts for data processing and operational tasks.
- Converted large volumes of raw and unstructured information into usable structured datasets.
- Built practical solutions based on client and business requirements.

SELECTED PROJECTS

CampusCV | Digital Portfolio SaaS Platform

- Developed CampusCV, a SaaS platform that enables students and professionals to create, customize, and publish digital portfolios.
- Built a template-based portfolio editor with customizable layouts and support for multiple portfolio designs.
- Implemented public portfolio publishing with shareable URLs, enabling users to showcase their skills, projects, and experience online.
- Developed features including downloadable resumes, light and dark themes, and portfolio customization.
- Worked on template rendering, live previews, and portfolio publishing workflows to maintain consistency between the editor and published websites.

Technologies: Next.js, React, TypeScript, JavaScript, HTML, CSS

Spark AI | AI Chat & Business Automation Platform

Built an AI-powered business platform combining conversational AI with messaging and workflow automation.

- Developed AI chatbot functionality for business/customer interactions.
- Built dashboard-based campaign and messaging workflows.
- Worked on WhatsApp integrations and automated communication systems.
- Integrated APIs, backend services, databases, and AI functionality.
- Designed SaaS-style modules for campaigns, conversations, leads, and automation.

Technologies: JavaScript, Node.js, APIs, AI/LLM Integration, WhatsApp APIs, Databases

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WhatsApp Campaign Automation System

- Developed a dashboard-driven system for managing WhatsApp campaigns.
- Integrated messaging APIs and automated campaign workflows.
- Built functionality for managing contacts, messaging flows, and campaign operations.
- Worked with backend services and API-based integrations.

Technologies: Node.js, JavaScript, WhatsApp APIs, Automation

Email Campaign Automation System

- Built an automated email campaign system using API-driven workflows.
- Implemented dynamic templates and campaign scheduling logic.
- Designed workflows capable of processing large contact lists.
- Automated repetitive campaign operations.

Technologies: Python, APIs, Automation

AI HR Assistant

- Developed an AI-assisted system for resume screening and candidate analysis.
- Implemented NLP-based candidate filtering and ranking concepts.
- Automated portions of the candidate evaluation workflow.
- Explored AI-driven approaches for improving recruitment efficiency.

Technologies: Python, NLP, Machine Learning, AI Models

Google Maps Lead Extraction Engine

- Built a Python-based lead extraction system for collecting business information.
- Automated web data extraction and conversion into structured lead datasets.
- Implemented processing workflows to clean and organize collected information.
- Reduced repetitive manual lead-research work by approximately 60–70%.

Technologies: Python, Web Scraping, Browser Automation, Data Processing

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Browser-Based Interactive Games

- Developed lightweight interactive games using browser technologies.
- Implemented gameplay logic, interactions, animations, and responsive interfaces.
- Experimented with AI-assisted development for rapid game prototyping.

Technologies: HTML, CSS, JavaScript

EDUCATION

B.Tech – Artificial Intelligence & Data Science

PRIST University , Thanjavur
Nov 2022 – May 2026

Focused on artificial intelligence, machine learning, data science, programming, and software development while independently building production-oriented software and automation projects.

LANGUAGES

Tamil: Native
English: Professional Proficiency

CERTIFICATION

Honours Diploma in Full Stack Development (HDFD)

CSC – Computer Software College, Thanjavur

Full-stack development covering programming, web technologies, databases, and application development.

TECHNICAL SKILLS

Programming Languages
Python, JavaScript, TypeScript, SQL, Java, C, C++, C#

Frontend Development
HTML5, CSS3, JavaScript, TypeScript, React, Next.js, Tailwind CSS, Bootstrap, Vite

Backend Development
Node.js, Express.js, Python, Flask, Django, REST APIs

Mobile & Cross-Platform
Flutter, Dart

Databases & Backend Services
PostgreSQL, MySQL, MongoDB, Supabase, Firebase, Prisma

AI & Machine Learning
AI/LLM Integration, NLP, Machine Learning Fundamentals, Model Evaluation, Scikit-learn, AI Automation

Data Engineering & Analysis
Pandas, NumPy, Data Cleaning, Data Collection, EDA, Data Processing, Structured Data Pipelines

Automation & Web Data
Playwright, Puppeteer, Selenium, Browser Automation, Web Scraping, Workflow Automation, API Automation

AI-Assisted Development / Vibe Coding
Cursor, Windsurf, Google AI Studio, Lovable, Antigravity, AI-assisted debugging, rapid prototyping, code generation, refactoring, architecture exploration

Developer Tools
Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Docker

Deployment & Infrastructure
Linux, VPS environments, Docker, Netlify, Render, basic server deployment and configuration

Game Development
Unity, Godot, HTML5 Game Development

ADDITIONAL STRENGTHS

Problem Solving • Analytical Thinking • Rapid Learning • Product Thinking • Independent Development • Debugging • Logical Reasoning • Technical Research • Iterative Development

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CAREER OBJECTIVE

Seeking a Junior Software Developer opportunity where I can combine strong software fundamentals with AI-assisted development to rapidly build, test, debug, and ship useful software. I am particularly interested in teams that embrace modern AI development workflows and value developers who experiment quickly, learn continuously, and turn ideas into working products.