

# KARTHIK NAMBIAR

## Full-Stack Developer & UI/UX Enthusiast

- ⌚ India | 📥 React & Full-Stack Developer
  - 🌐 Portfolio: [kode-with-k.vercel.app](https://kode-with-k.vercel.app)
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## PROFESSIONAL SUMMARY

Creative and detail-oriented Full-Stack Developer specializing in modern React-based UI/UX development and backend systems. Proven experience in building responsive, animated, and interactive single-page applications with robust backend support using Flask, Node.js, and Django. Passionate about clean code architecture, component reusability, and delivering exceptional user experiences. Strong expertise in component-based architecture, RESTful API design, and complete deployment pipelines.

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## TECHNICAL SKILLS

- Languages:** JavaScript (ES6+), Python, HTML5, CSS3, PHP, SQL, TypeScript
- Frontend:** ReactJS, Tailwind CSS, Framer Motion, React Router, Redux, Material-UI, Bootstrap
- Backend:** Node.js, Flask, Django, Express.js, FastAPI
- Databases:** PostgreSQL, MongoDB, MySQL, SQLite, Redis
- Tools & Platforms:** Git, Vercel, Render, Heroku, Docker, Figma, Postman, Adobe Photoshop
- Concepts:** SPA, REST API, GraphQL, Component Architecture, Responsive Design, UI Animations, State Management, CRUD Operations, JWT Authentication, MVC Architecture, Microservices
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## FEATURED PROJECTS

- 🎵 **KodeWithMusic** – Spotify-Style Music Streaming Platform

*Tech Stack: ReactJS, Tailwind CSS, Framer Motion, React Router*

*GitHub: [github.com/KarthikNambiar135/KodeWithMusic](https://github.com/KarthikNambiar135/KodeWithMusic)*

- Developed a fully responsive music streaming interface with modern UI/UX design
- Implemented real-time search functionality, dynamic hover effects, and custom audio controls
- Integrated smooth page transitions using Framer Motion and React Router for seamless navigation
- Features playlist management, user authentication, and responsive design across all devices

## PoopyBot – AI Chatbot with Dynamic Personality

*Tech Stack: Python, Ollama, Flask, ReactJS, Custom SVG Graphics*

- Custom-trained local AI chatbot with adaptive behavior based on user interaction patterns
- Built scalable architecture with Flask backend and React frontend for real-time communication
- Implemented personality-based responses with context-aware conversation handling
- Features offline/online modes, local learning capabilities, and fully custom animated UI
- Designed unique SVG-based interface with engaging visual elements

## Disease Outbreak Predictor – ML-Powered Health Analytics

*Tech Stack: Flask, Python, Scikit-learn, Leaflet.js, OpenWeather API*

- Developed machine learning model to predict dengue/malaria outbreak risks using historical data
- Integrated interactive heatmap visualization using Leaflet.js for geographic data representation
- Implemented real-time weather data integration with OpenWeather API for enhanced predictions

- Features trend analysis, risk assessment algorithms, and responsive dashboard interface

## Smart Blood Bank Management System

*Tech Stack: Flask, Python, SQLite, Haversine Algorithm, Geolocation API*

- Built comprehensive donor-hospital matching system with intelligent location-based filtering
- Implemented Haversine formula for accurate distance calculations and proximity matching
- Developed priority-based alert system for eligible donors with automated notifications
- Features real-time inventory management, donor tracking, and emergency request handling

## DjangoGrams – Social Media Platform

*Tech Stack: Django, PostgreSQL, HTML/CSS, Django REST Framework*

*Deployed on Render*

- Developed full-featured social media application with Instagram-inspired interface
- Implemented user authentication, image uploads, likes, comments, and follow/unfollow functionality
- Built RESTful API architecture with Django REST Framework for frontend-backend communication
- Features user profiles, feed algorithms, and comprehensive content management system

## Portfolio Analytics Dashboard

*Tech Stack: Django REST API, ReactJS, Chart.js, OAuth, PDF Generation*

- Created comprehensive analytics platform for GitHub contributions and coding activity visualization
- Integrated OAuth authentication for secure user access and data synchronization

- Developed interactive charts and graphs using Chart.js for data representation
- Features PDF export functionality, real-time data updates, and customizable dashboard widgets

## Interactive Project Gallery

*Tech Stack: ReactJS, Tailwind CSS, Framer Motion, Responsive Design*

*Live: <https://my-project-gallery-nine.vercel.app/>*

- Designed and developed interactive project showcase with smooth animations and transitions
  - Implemented responsive grid layout with hover effects and project filtering capabilities
  - Features project categorization, detailed project modals, and optimized image loading
  - Integrated with main portfolio site for seamless user experience
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## PYTHON PROJECTS

### Web Scraping Automation Suite

*Tech Stack: Python, BeautifulSoup, Selenium, Pandas, Requests*

- Developed automated web scraping tools for data collection from various e-commerce platforms
- Implemented data cleaning and processing pipelines with Pandas for structured output
- Features scheduling capabilities, error handling, and CSV/JSON export functionality

### Stock Price Prediction Model

*Tech Stack: Python, TensorFlow, Pandas, NumPy, Matplotlib*

- Built machine learning model for stock price prediction using historical market data
- Implemented LSTM neural networks for time series forecasting with 85% accuracy

- Features data visualization, risk analysis, and automated trading signal generation

### Password Manager CLI Tool

*Tech Stack: Python, Cryptography, SQLite, Click*

- Developed secure command-line password manager with encryption and database storage
- Implemented master password protection, password generation, and secure storage
- Features CLI interface, backup/restore functionality, and cross-platform compatibility

### Automated Report Generator

*Tech Stack: Python, ReportLab, Matplotlib, Pandas*

- Created automated system for generating PDF reports from database queries
- Implemented template-based report generation with charts, tables, and custom styling
- Features scheduled report generation, email integration, and customizable templates

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## EDUCATION

### Bachelor of Technology in Computer Science & Engineering

*Pimpri Chinchwad University | 2023 – Present*

- **Relevant Coursework:** Data Structures & Algorithms, Web Development, Database Management Systems, Artificial Intelligence, Software Engineering, Operating Systems
- **ACM Student Chapter** – Tech Head | Leading technical initiatives and organizing coding workshops
- **GPA:** Sem1-9, Sem2-9.7, Sem3-9, Sem4-8.57

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## ACHIEVEMENTS & ACTIVITIES

- **Hackathon Participant:** Actively participated in multiple college and inter-college hackathons
  - **Technical Leadership:** Led development teams in college projects and tech events
  - **Community Engagement:** Mentor junior students in web development and programming concepts
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## INTERESTS & HOBBIES

- **UI/UX Design:** Creating intuitive and visually appealing user interfaces
- **Creative Frontend Development:** Exploring new animation libraries and design patterns
- **Game Design:** Developing simple games using JavaScript and Python
- **Python Scripting:** Automation tools and data analysis scripts
- **Technology Blogging:** Writing technical articles and tutorials
- **Open Source:** Contributing to community projects and maintaining personal repositories