

Karthick Arumugam

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Professional Summary

Full-stack web developer with expertise in front-end technologies (HTML, CSS, JavaScript, React.js) and back-end frameworks (Python, PHP, Express.js, Node.js). Proven experience designing and optimizing RESTful APIs, managing MySQL databases, and deploying scalable applications on Netlify, Render, and Firebase. Skilled in GitHub version control and dedicated to writing clean, maintainable code. Passionate about problem-solving, continuous learning, and driving innovation in fast-paced environments.

Technical Skills

- **Frontend:** React.js, HTML, CSS, JavaScript, Bootstrap, Tailwind CSS.
- **Backend:** Python, PHP, Express.js, Node.js, MySQL.
- **Tools:** Git, Postman, Netlify, Render, Firebase, VS Code.
- **APIs:** RESTful API design and optimization.

Professional Skills

- **Time Management:** Efficiently balancing multiple tasks and deadlines.
- **Problem-Solving:** Analyzing and resolving complex challenges effectively.
- **Adaptability:** Quickly adjusting to new tools, technologies, and workflows.
- **Flexibility:** Open to changes and new perspectives in fast-paced environments.
- **Multitasking:** Managing multiple projects simultaneously with efficiency.

Experience

Full-Stack Developer

MindTek Research and IT Solutions, Nagercoil, India

June 2023 – Present

- Developed and maintained scalable web applications using React.js, Express.js, PHP, Python, and MySQL.
- Designed and optimized RESTful APIs to enhance system performance and integration.
- Managed MySQL databases for efficient data storage and retrieval.
- Integrated third-party APIs and external services to expand application functionality.
- Collaborated with cross-functional teams to improve code quality and overall project efficiency.
- Deployed applications on Netlify, Render, and Firebase.
- Implemented CI/CD pipelines using GitHub Actions to streamline deployment processes.
- Enhanced security measures by integrating robust authentication and data encryption protocols.
- Mentored junior developers through regular code reviews and technical workshops.
- Spearheaded performance optimization initiatives, reducing load times by over 30%.

Projects

OneClick Electronics E-commerce

Live

- **Description:** A feature-rich full-stack e-commerce platform featuring real-time inventory management, order tracking, secure payment gateway integration, and user authentication with Firebase. Successfully scaled the application to handle increased user traffic and transactions.
- **My Role:** Designed and implemented backend APIs, product management systems, and payment gateway integration.
- **Technologies:** React.js, Express.js, MySQL, Firebase, Bootstrap.

Fabro Room Booking

Live

- **Description:** A hotel booking system with real-time availability tracking, customer authentication, and integrated payment gateway. Implemented real-time monitoring and performance optimization to improve booking efficiency.
- **My Role:** Developed backend architecture, implemented real-time room availability, and integrated a secure payment system.
- **Technologies:** React.js, JavaScript, Bootstrap, Express.js, MySQL.

College Administration & View Gallery

Live

- **Description:** A college management system for handling student records and showcasing event galleries. Enhanced the user interface for seamless navigation and improved content management.
- **My Role:** Developed the gallery module and admin panel functionalities.
- **Technologies:** PHP, MySQL, JavaScript, Bootstrap.

PDF Voice Assistant

Live

- **Description:** An AI-powered tool that reads text from PDFs using text-to-speech, with integrated speech recognition for hands-free commands. Achieved high accuracy in voice recognition and natural language processing for an intuitive user experience.
- **My Role:** Built speech recognition and text-to-speech models; developed the Flask backend for PDF parsing and real-time interactions.
- **Technologies:** Python, PyTorch, Flask, SpeechRecognition API.

Education

B.E. in Computer Science & Engineering

Udaya School of Engineering, Vellomody, Nagercoil, Tamil Nadu

2019 – 2023 CGPA: 8/10

SSC

Govt. Hr. Sec. School, Thenmalai, Tenkasi, Tamil Nadu

2018 – 2019 Score: 70%

SSLC

Govt. Hr. Sec. School, Thenmalai, Tenkasi, Tamil Nadu

2016 – 2017 Score: 96%