Karthick Arumugam

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EXPERIENCE

MINDTEK RESEARCH AND IT SOLUTIONS | Full-Stack Developer

June 2023 -- Present | Nagercoil, India

- Developed scalable web applications using React.js, Express.js, PHP, Python, and MySQL.
- Designed and optimized RESTful APIs to enhance performance.
- Managed MySQL databases for efficient storage and retrieval.
- Integrated third-party APIs to expand functionality.
- Deployed applications on Netlify, Render, and Firebase.
- Implemented CI/CD pipelines using GitHub Actions.
- Enhanced security with robust authentication and encryption.
- Spearheaded performance optimizations, reducing load times by 30%.

PROJECTS

ONECLICK ELECTRONICS E-COMMERCE | Live

- **Description:** A feature-rich e-commerce platform with real-time inventory, order tracking, secure payment integration, and Firebase-based authentication.
  Successfully scaled to handle increased traffic.
- **My Role:** Led full-stack development by designing and implementing both the dynamic frontend interface and robust backend APIs, including payment systems.
- **Technologies:** React.js, Express.js, MySQL, Bootstrap.

FABRO ROOM BOOKING | Live

- **Description:** A hotel booking system with real-time availability, customer authentication, and integrated payments.
  Improved booking efficiency via performance optimization.
- **My Role:** Handled full-stack development by creating an engaging frontend experience and developing a comprehensive backend architecture with real-time tracking.
- **Technologies:** React.js, JavaScript, Bootstrap, Express.js, MySQL.

COLLEGE ADMINISTRATION & VIEW GALLERY | Live

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

PDF VOICE ASSISTANT | Live

- **Description:** An AI tool that reads PDFs via text-to-speech with integrated speech recognition.
  Achieved high accuracy for an intuitive user experience.
- **My Role:** Built speech recognition and TTS models; developed the Flask backend.
- **Technologies:** Express.js, React.js, SpeechRecognition API.

EDUCATION

UDAYA SCHOOL OF ENGINEERING | B.E. in Computer Science & Engineering

2019 -- 2023 | Nagercoil, TN

- CGPA: 7.5
- Recognized as a bright student to collaborate with the SP Office in developing a cyberforensic laboratory, focusing on digital investigations and cybersecurity infrastructure.
- Worked as an 'invigilator' for government and bank exams during holidays, ensuring a fair and secure examination process.

GOVT. HR. SEC. SCHOOL | SSC

2018 -- 2019 | Thenmalai, Tenkasi, TN

- Score: 70%

GOVT. HR. SEC. SCHOOL | SSLC

2016 -- 2017 | Thenmalai, Tenkasi, TN

- Score: 96%

TECHNICAL SKILLS

- **Frontend:** React.js, HTML, CSS, JavaScript, Bootstrap, Tailwind CSS, Responsive Web Design.
- **Backend:** Python, PHP, Express.js, Node.js, MySQL, MongoDB, RESTful API development.
- **DevOps/Tools:** Git/GitHub, Postman, Netlify, Render, Firebase, VS Code, CI/CD (GitHub Actions).
- **APIs:** RESTful API design, integration and optimization, third-party API integration.

PROFESSIONAL SKILLS

- Time Management, Adaptability, Problem-Solving, Flexibility, Multitasking, Quick Learner.