Vignesh Sivakumar

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Objective

Full Stack Developer with expertise in modern web technologies, building scalable applications, and secure authentication. Passionate about problem solving, open source contributions, and industry best practices.

Education

Bannari Amman Institute of Technology, BE in Information Science and Engineering   Sept 2023 – July 2027
- **CGPA:** 7.4/10.0
- **Relevant Courses:** Computer Architecture, Computational Theory

Projects

Portfolio Website   GitHub
- Built a responsive personal portfolio with React.js to showcase projects and skills.

Classless – Inclusive AI Tutor for All   GitHub
- **Problem:** Millions of students in rural and low-income communities lack access to quality digital education due to poor internet connectivity, limited local language support, and affordability issues.
- **Solution:** Developed an AI-powered learning platform accessible through web app, SMS, IVR, and offline-first mobile app to deliver equitable education.
- Designed React/React Native app with multilingual support and OCR-based handwritten question solving.
- Integrated AI tutoring (Hugging Face, OpenAI) and community access via SMS/IVR (Twilio, Exotel).
- Built offline-first caching system to ensure lessons remain usable without internet.
- Implemented adaptive learning paths so students receive personalized lessons based on their progress.
- **Tech Stack:** React.js, React Native, Node.js, Express.js, PostgreSQL, Hugging Face, OpenAI, Twilio.

Technical Skills

- **Programming Languages:** C++, C, Java, SQL, JavaScript
- **Frontend:** HTML, CSS, JavaScript, React.js
- **Backend:** Node.js, Express.js
- **Database:** MySQL, PostgreSQL
- **Tools:** Git, GitHub, Postman

Courses and Certifications

- **Google Ads Apps Certification**, by Google cloud   *March 2024*
- **Google Ads Display Certification**, by Google cloud   *March 2024*
- **Introduction to Cyber Security**, offered by Cisco Networking Academy   *April 2024*
- **SQL and Relational Databases 101**, Cognitive Class (IBM)   *January 2025*
- **JavaScript Essentials 1**, offered by Cisco Networking Academy   *July 2025*
- **JavaScript Essentials 2**, offered by Cisco Networking Academy   *July 2025*
- **Prompt Engineering**, offered by IBM cognitive class   *August 2025*