Vinayakan V S

Kerala, India   Email: vinayakanvs2003@gmail.com
Portfolio: vinayakanvs.com   Mobile: +91 7994377697
Github: github.com/vinayakan-v-s   LinkedIn : linkedin/vinayakan-v-s

EDUCATION

- **Amrita Vishwa Vidyapeetham**   Coimbatore, Tamil Nadu, India
  B.Tech - Computer Science and Engineering   *Aug 2021 - Apr 2025*
  CGPA: 7.87 / 10

- **Nirmala Math Central School**   Thrissur, Kerala, India
  CBSE   *Jun 2019 - Apr 2021*
  Score: 92.4%

SKILLS

- **Languages**   Python, Java, Javascript, C++, C, Kotlin
- **Technologies**   React, React-Native, Redux, Nodejs, Express, REST APIs, Socket.io
- **Platforms**   Firebase (Auth, Firestore, Storage, Functions), GCP, Git, Github, Android Studio, Linux, Google Analytics

EXPERIENCE

- **Bandlr — bandlr.com**
  Freelance Software Engineer (via Fiverr)   *Jun 2024 - Present*

  - Developed event-based social chat web app (React, Node.js) deployed on GCP with CI/CD, growing to 200+ active users
  - Engineered companion React Native Android app with push notifications & geo-location features (200km radius event recommendations)
  - Leveraged Firebase suite (Firestore, Functions, Storage, Auth) for backend, data, and authentication needs.
  - Packaged and submitted Android app (.aab) to Google Play Store.
  - Technologies used: React Native, Firebase Suite, React, Redux, Node.js, GCP, Google Analytics.

- **Einsicht Technologies**
  Frontend Intern - certificate   *Nov 2022 - Dec 2022*

  - Engineered a user-centric CRM frontend with intuitive navigation, boosting user productivity by 35% and reducing support tickets by 40%
  - Optimized frontend performance, enhancing application responsiveness by 10% through advanced coding techniques and efficient resource utilization
  - Developed a dynamic login/signup page within 6 hours, beating the 2-day deadline by 75%

PROJECTS

- **Forgery Localization in Images and Scanned Documents — demo link**   Github
  B.Tech Final Year Project   *Sept 2024 - Apr 2025*

  - Led a 4-person team developing a dual approach for forgery detection (general images & scanned documents).
  - Designed a novel ELA-CNN architecture, achieving F1: 0.57, AUC: 0.76 on CASIA v2 for image splicing/copy-move detection; **co-authored a PEIS 2025-accepted research paper**.
  - Enhanced document forgery detection by training YOLOv8 on a challenging Roboflow dataset, achieving mAP: 0.93 and precise bounding box localization with confidence scores.
  - Built a Flask demo app for visualizing results from both models.
  - Technologies used: Python, TensorFlow/Keras, PyTorch, OpenCV, Scikit-learn, Flask, Git.

- **ChatterSphere — demo link**   Github
  Web App   *Apr 2023 - Aug 2023*

  - Developed a scalable real-time chat application by implementing 4+ key features—user profiles, single/group chat, image uploads, and WebSocket-based instant messaging
  - Designed and integrated over 8 RESTful APIs to enable seamless client-server communication
  - Implemented JWT authentication to enhance security, resulting in 300+ positive user reviews within three months
  - Technologies used: React, Node.js, JavaScript, MongoDB, Express.js, REST API, Socket, Cloudinary, Render, Three.js

- **CheckMate-Academy**   Github
  Game   *Sept 2023 - Dec 2023*

  - Developed an advanced chess application integrating the Stockfish engine and implementing 5+ key features—including player vs AI, AI vs AI, hint provision, evaluation score, tutorials, and puzzles
  - Improved application performance by 20% through optimized threading, enhancing real-time game evaluations and user experience
  - Increased user retention by 40% by enhancing gameplay experience with advanced AI scenarios and interactive learning tools
  - Technologies used: Python, Pygame, Stockfish engine, threading