

J B MUGUNDH

Ambitious and Self Motivated Computer Engineering Undergraduate

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Education

Madras Institute of Technology, Anna University

B E Computer Science & Engineering - CGPA: 9.8

Oct 2021 – Present

Chennai, Tamil Nadu

Experience

PayPal

Jun 2024 – Present

Software Engineer Intern | Spring boot, Jira, Slack, PagerDuty, Cosmos AI

Bangalore, Karnataka

- Collaborating with the Credit Risk Management Team.
- Developing a Scrum Automation System to automate repetitive tasks such as live support ticket creation, Jira ticket validation, reminders for open tickets and many more.
- Integrating Cosmos AI LLM to provide sprint summaries, ticket scope verification, etc.

TIH-IoT, IIT Bombay

Apr 2024 – Present

Research Fellowship | Python, OpenCV, YOLO

Chennai, Tamil Nadu

- Leading the research efforts in our project 'GreenGuardAI'.
- Developed a YOLO object detection algorithm for plant pest detection.

Projects

PrivacyOps | *React js, Node js, Express js, MongoDB, Flask*

Apr 2024 – June 2024

- Developed a criminal case filing system with role-based access control and advanced homomorphic encryption.
- Integrated Crime Lens API utilizing Gemini LLM for OCR and NLP processes for automatic extraction of case details from FIR and evidence documents, ensuring seamless extraction and secure transmission of sensitive case data.
- Collaborated selective data anonymization recommendation system for further protection of sensitive information.

EduConnect | *React js, Flask, SQLite*

Apr 2024 – Apr 2024

- Created a dynamic P2P learning environment where peers can engage in collaborative learning through a feature-rich platform with Mirotalk API enabling video calls, screen sharing, file sharing, session recording, chatting, etc.
- Utilized Gemini LLM to analyze skill gaps and recommend tailored courses to achieve their career goal.
- Provided AI-powered mock tests, real-time assistance and guidance for personalized exam preparation.

IAS for Blind Navigation (CSRC Funded Project) | *Python, OpenCV, YOLO, Raspberry Pi* **Oct 2023 – Mar 2024**

- Utilized YOLO object detection algorithms to develop a real-time obstacle detection system with depth estimation and voice navigation, enhancing accessibility for visually impaired users.
- Integrated Raspberry Pi's processing power to seamlessly deploy the system, enabling real-time navigation assistance.
- Utilized Gemini LLM for Virtual Voice Assistant and Beyond GPS Navigation.

FileCoffer - Lie Detection & File Locking System in OS | *Python, OpenCV*

Apr 2023 – Jun 2023

- Implemented Haar cascades algorithm to detect and recognize faces, laying the foundation for facial recognition.
- Developed lie detection functionality to analyze facial expressions and detect deception.
- Incorporated facial recognition technology with file locking mechanisms to bolster OS security.

Technical Skills

Programming / Tech: C, C++, Java, Python, JavaScript, Shell, PHP, MySQL, Oracle, MongoDB, PostgreSQL.

Libraries / Frameworks: React js, Node js, Express js, Spring boot, Next js, Solidity, OpenCV, Flask.

Tools / Platforms: GitHub, Postman, Firebase, Jira, Slack, PagerDuty, Figma, Canva, Wordpress, LaTeX.

Soft skills: Leadership, Team working, Networking, Problem solving, Communication, Creativity.

Certifications

- Six Sigma and the Organization (Advanced) - **University System of Georgia**
- Advanced React - **Meta**
- Full Stack Web and Mobile App Development (Mern Stack) - **Udemy**
- Machine Learning with Python - **IBM**

Involvements/Achievements

- Web Developer Lead at Data Centre, MIT, Anna University.
- Research student at Next Generation Networks Lab.
- Co-authored an accepted paper at VTC Spring 2024 Conference on DDoS attack detection for AVs in 6G Networks.
- Selected for funded project by CSRC, Anna University, as top 20 from 400+ teams.
- Winner of Hack2TechSustain (H2TS) National Level Hackathon.
- Finalist at KSP Datathon - Balancing Law Enforcement.