Jeyahari Rajasekar

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Objective

Aspiring software developer with a strong foundation in Python, C++, Java, HTML and SQL seeking opportunities in software development and frontend engineering. Passionate about creating innovative solutions and contributing to impactful projects.

Education

Indian School Muscat   Muscat, OMN
Completed CBSE with 94.6% in 10th   *Aug. 2017 – May 2018*

Bala Vidya Mandir Higher Senior Secondary   Chennai, TN
Graduated CBSE 90.4% in 12th   *Aug. 2019 – May 2020*

Vellore Institute of Technology   Chennai, TN
Bachelor of Technology in Computer Science Engineering, specialization in AI and Robotics with a CGPA of 7.9   *Aug. 2020 – May 2024*

Projects

PICXEA | *Python, Django, HTML,CSS, PostgreSQL*   August 2021 – December 2021
- Implemented PostgreSQL as back end to store uploaded images.
- Integrated a user login and friend system for image sharing
- Created a permissions system for visibility control

ANPR | *Python,HTML,CSS*   August 2022 – November 2022
- Developed a program to detect vehicle number plates and convert them to text
- Utilized preprocessing techniques such as morphological operations and Otsu's inverse binary thresholding
- Simple plug and play webpage created for easy usage.

Women's Safety Device | *Arduino IDE, tinkerCAD*   August 2022 – November 2022
- Developed an IoT emergency device using SIM7670 module, switch, buzzer, and GPS module.
- Enabled SOS message with Google Maps location link upon activation.

Emotion Recognition and Systems for Speech Impaired | *Python*   December 2023 – April 2024
- Explored methods to improve existing emotion recognition systems for speech impaired individuals
- Utilized altered MobileNetV2 for facial emotion recognition.
- Achieved efficient results relative to transfer learning methods and implemented live recognition.

Other Course Projects
- Record and playback robotic arm for microprocessors
- Automated schedule management using AI and chatbot
- Rover with line following, obstacle avoidance and Bluetooth control.

Published Papers

ANPR | *Python,HTML,CSS*   *2023*
  - Paper published in ICMSS 2023
  - Paper was SCOPUS indexed. DOI: 10.4018/978-1-6684-9189-8.ch00

Technical Skills

Programming languages: Java, Python, C/C++, SQL , HTML/CSS, R
Database and Client/Server Technologies: PostgreSQL,MongoDB
Software Tools: LTSpice, TinkerCAD, ROS, Cisco Packet tracer, Node red, Matlab, UiPath
Languages: English(Fluent), French(A2), Tamil(Native Speaker), Hindi