Ashwin Wilson

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Summary

Computer Science and Engineering student at the College of Engineering Adoor with a strong interest and experience in web and mobile app development. Currently exploring **Machine Learning** and its real-world applications. A quick learner and collaborative team player, passionate about solving problems and creating impactful solutions.

Skills

- ○ **Programming Languages:** C, Java, JavaScript, Python
- ○ **Web & Mobile App Development:** React, Node.js, MongoDB, MySQL, Express.js, Flutter
- ○ **Soft Skills:** Public Speaking, Project Planning, Team Collaboration, Problem Solving, Community Engagement

Education

Computer Science and Engineering   *2022 – Present*
College of Engineering, Adoor, Kerala   CGPA: 9.2/10

Higher Secondary Education   *2020 – 2022*
Catholicate HSS, Pathanamthitta, Kerala.   Score: 96.5%

Experience

Software Engineer - Freelancing   *2024 - Present*
Webie website ↗

- ○ Collaborated with clients to define requirements and delivered responsive, full-stack web applications.

Webmaster   *2024 - 2025*
IEEE Education Society Kerala Chapter website ↗

- ○ Designed and maintained the IEEE EdSoc KC website, publishing real-time updates for events such as *e-kites ↗*
- ○ Led and organized multiple technical activities under IEEE EdSoc KC.

IEEEXtreme 18.0 Student Ambassador   *2024*
IEEE certificate ↗

- ○ Promoted IEEEXtreme 18.0 through coding workshops and mentorship sessions, increasing participation from the campus community.

Projects

Dynamic Disaster Response Platform   *github-code ↗*

- ○ Built a real-time web platform for coordinating disaster relief efforts between families, drivers, volunteers, caretakers, and administrators, with live alerts, location tracking, and resource delivery workflows.
- ○ **Tech Stack:** React, Node.js, MongoDB, Olamaps API for map-based communication and routing.

Platform for Text Extraction and Corpus Development for Malayalam Language   *github-code ↗*

- ○ A web-based platform that extracts text from scanned Malayalam PDFs using OCR and allows manual correction for corpus creation and digital archiving.
- ○ **Tech Stack:** Tesseract OCR, React (frontend), Node.js & MongoDB (backend).

SIC Assembler & Virtual Machine   *github-code ↗*

- ○ Created a low-level assembler and simulator to process SIC assembly language, converting it to machine code and executing it with virtual memory/register models.
- ○ **Tech Stack:** C programming

Hack a Addict   *github-code ↗*

- ○ Designed a mobile app that promotes drug abuse awareness and mental health support by enabling users to join communities, access resources, and connect with professionals.
- ○ **Tech Stack:** Flutter (mobile frontend), Firebase (backend services and authentication).

Certifications

Ethical Hacking   *Jul - Oct 2024*
IIT, Kharagpur through NPTEL certificate ↗

- ○ Successfully completed the Ethical Hacking course (12 week course) provided by IIT, Kharagpur through NPTEL. Gained in-depth knowledge and practical insight in cyber security.