RICHARD B MELATH

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Angamaly, Kerala - 683576, India

OBJECTIVE

Aspiring AI and software development professional with a solid foundation in programming, machine learning, and problem-solving. Proficient in Python and C, with hands-on experience in developing innovative projects such as chatbots, game development, and personalized recommendation systems. Eager to leverage technical expertise and creative solutions to drive impactful outcomes in a dynamic, fast-paced environment while continuously expanding my skill set.

EXPERIENCE

- **Senscript (intern)** *June 2025 - Present*
  - During my internship at Senscript, I gained practical experience in AI development by working on a real-time project to extract structured and unstructured content from PDFs using tools like PDFPlumber and Tabula. I also developed an email automation tool that automatically processes and responds to incoming emails.

- **Information Kerala Mission (intern)** *August 2024 - Jan 2025*
  - Developing an AI-powered chatbot for the HarithaMithram app to enhance waste management services. Implementing features for handling FAQs, real-time updates, and issue reporting by integrating structured data sources with the ChatGPT API.

- **Tiltedu (intern)** *May 2023 - June 2023*
  - During my internship at TILTEDU, I gained hands-on experience with tools like Unity, C#, Visual Studio, and Blender, significantly enhancing my technical skills and providing real-world game development experience.

- **Star Innovations (intern)** *14 July 2024, 15 October 2024*
  - Designed and developed a Website Prototype and a Website under Dr. Binju Saju's guidance, ensuring a user-friendly and brand-aligned interface.

PROJECTS

- **Waste Management Personal Assistant**
  Technologies: Python, LLM, gemini, chatgpt, fine tuning
  - Designed and implemented an AI-powered waste management chatbot for efficient query handling and real-time updates. This system provided accurate information on waste collection schedules, guided users in issue reporting, and offered insights into sustainable waste practices, enhancing overall waste management and user engagement.

- **Web-based Food Recommendation System (ML)**
  Technologies: Flask, HTML, CSS, ML, NLP
  - Developed and integrated machine learning algorithms into a website to deliver personalized food recommendations, optimizing user experience through tailored meal suggestions based on individual preferences.

- **Project Sustainability Analyser**
  Technologies: GenAI, Python, HTML, Flask, IBM Watsonx, Prompt Engineering
  - Developed a website using Flask and IBM Watson tools to predict sustainability issues in project ideas. The platform also recommends sustainable alternative products, promoting environmentally conscious decision-making.

- **First Person Shooter Game Development**
  Technologies: C#, Unity, Blender
  - Built a 3D first-person shooter game in Unity, implementing core mechanics, realistic physics, and user interactions to create an engaging experience. Designed and integrated 3D assets using Blender.

SKILLS

- **Python**
- **C Programming**
- **Machine Learning**

- **Front-End:** HTML, CSS
- **Back-End:** Flask
- **Wordpress, Wix Studio**

- **UiPath**
- **SQL (Intermediate)**
- **Google Cloud(Beginner)**
- **Deep Learning**
- **Problem Solving**

- **Leadership**
- **Creative Thinking**
- **Design Thinking**
- **Team Work**
- **Time Management**

LINGUISTIC SKILLS

English (Proficiency level)
Malayalam (Mother Tongue)
Hindi (Proficiency level)

EDUCATION

- **ADI SHANKARA INSTITUTE OF ENGINERING AND TECHNOLOGY** *2021 - 2025*
  Btech - CSE(AI) Kerala, India
  ◦ GPA: 8.52

- **UHSS MAMBRA** *2021*
  Higher Secondary Kerala, India
  ◦ Grade: 97.58%

- **L.F.C.H.S.S KORATTY** *2019*
  Secondary Education Kerala, India
  ◦ Grade: 100%

EXTRACURRICULAR ACTIVITIES

- **Campus Ambassador** *July 2024 - Present*
  AKEFA ASIET
- **Volunteer** *2019 - 2021*
  National Service Scheme
- **Cadet** *2016 - 2019*
  Student Police Cadet

PROFESSIONAL MEMBERSHIPS

- **AI Club**
- **Computer Society of India**
- **GDSC**
- **Hack Club**

CERTIFICATIONS

- **Certificate Course on Artificial Intelligence (Infosys Foundation and ICT Academy)**
- **Generative AI-30 hours Add-on Course(GPT3 Cloud Innovations)**
- **Problem solving through programming in C (NPTEL)**
- **Fundamentals of Artificial Inteligence (NPTEL)**
- **Computer vision and image processing - fundamentals (NPTEL)**
- **Matlab Onramp Certification (MathWorks)**
- **Computer Vision 101 (Infosys Springboard)**
- **Artificial Intelligence Foundation (Infosys Springboard)**

ACHIEVEMENTS

- Developed Shankarini, an AI-powered college chatbot that dynamically extracts website data to provide accurate and professional responses to student queries.
- Designed and developed the official website brahma25.live for Brahma25, the national-level inter-college technical and cultural fest organized by ASIET.
- Our project shortlisted and participated in IEDC innovation challenge
- Participated in national level gameathon hosted by JIT Bengaluru
- Participated in Smart India Hackathon 2023
- Shotlisted and participated in IBM's watsonx ai hackathon conducted at IBM kochi office.
- Developed website for AI department fest Prayag24