Adharsh P Ajayakumar

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EXPERIENCE

- **Jr Software Engineer | VRD Squared Technologies**   *(July 2024 - Feb 2025)*
  Developed and implemented new frontend features, resulting in a 15% increase in user engagement.Collaborated with the UX/UI team to optimize the user interface, leading to a 20% reduction in bounce rate and an overall improvement in user satisfaction - Angular 13 , System Design, TypeScript

- **Python Developer Intern | Revertech IT Solutions**   *(Jan 2023 - Mar 2023)*
  Worked on backend development using Python and Flask, and handled NoSQL database operations with MongoDB.Focused on building and testing FAST API and gained practical exposure to deploying backend services - Python, Flask, FAST API,MongoDB

SKILLS

- Python , Java(basics), JavaScript (React 17+ , Angular), HTML5, CSS3, Node, PostgreSQL, MySQL, MongoDB, SQL Query Optimization, FastAPI, Flask, Spring Boot, Node.js, Docker, Git, GitHub, GitHub Actions, SDLC, Agile Methodologies, Software Configuration Management, Version Control,Object - Oriented Programming

- Soft Skills: Solving, Collaboration, Decision-Making, Analytical Thinking, Adaptability

ACADEMIC PROJECTS

- **PETORIA – AI-Based Pet Companion App**
  Developed with Python, FlutterFlow, and Firebase. Improved chatbot accuracy by 45% using GPT fine-tuning, achieved 90% accurate breed detection with ML, and optimized database performance for 5,00+ users.

- **AI-Powered Resume Reviewer**
  Built an AI-powered Resume Analyzer using React, Tailwind CSS, FastAPI, and Hugging Face NLP models to provide real-time feedback by analyzing grammar, tone, and keyword relevance against job descriptions.

- **Pothole Patrol (Ongoing)**
  Developed an AI-powered road hazard reporting app with real-time mapping, GPS tagging, and computer vision to classify hazards and alert authorities, improving municipal response and commuter safety. - React Native, TensorFlow, Mapbox, Node.js, MongoDB

EDUCATION

- Bachelor of Technology in Computer Science
  Sahrdaya College of Engineering & Technology, Thrissur   *2020-2024*

  Academic Achievements: Paper Published (IEEE): The final project presented at the MIT ADT Conference (2024) — demonstrated AI application in document intelligence.