THIRUMURUGAN SUBRAMANIYAN

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CAREER OBJECTIVE

Software Engineer with 2.5 years of experience in designing and developing scalable software solutions, combining strong theoretical knowledge with practical coding expertise.

SKILL SETS

Programming Languages	Python, JavaScript, HTML, CSS
Database Exposure	MySQL, PostgreSQL, MongoDB
Operating Systems	Windows, Unix, Linux
Development Tools	Eclipse, Visual Studio, Sublime Text
Frameworks and package	React, Lang Chain, PyTorch, TensorFlow, Flask, Django, Fast API, Playwright, Pandas, NumPy
Other skills	Postman, Draw.io, PlanetUMl, Git, pgadmin, WSL, Gen AI prompting, RAG, Vector DB, Azure Open AI Models, AWS Bedrock, Google Gemini, Hugging Face, Ollama , API Integration, Web Scraping, UiPath, Redis, CI/CD pipeline, Docker.

EXPERIENCE

Company: Vpearl Solutions, Chennai   **Period: January 2025 – Present**
Role: AI Engineer| Development Tools: Python, Gen AI
1)Project: Lang Tech   **Period: January 2025 – April 2025**

Designed and developed Lang Tech, a PaaS web application capable of translating Excel, Word, PDF, and text files, integrating OCR for text extraction, and leveraging AI models including OpenAI's GPT, Google Gemini, and LLaMA to ensure accurate multilingual text recognition and translation.

Technology Involved:
- ✓ Developed the front-end user interface using HTML, CSS, and React.js
- ✓ IIntegrated Python-based RESTful APIs with Fast API.
- ✓ Implemented PostgreSQL for database management and AWS S3 for secure file storage.

2)Project: PDF AI Automation   **Period: April 2025 – Present**

Designed and developed a PDF AI automation a SaaS web application capable of extract specific stamp details from PDFs using OCR (Tesseract and Poppler) and AI models, including OpenAI's GPT, AWS Bedrock, Ollama, and Hugging Face models.

Technology Involved:
- ✓ Developed the front-end user interface using HTML, CSS, and React.js
- ✓ IIntegrated Python-based RESTful APIs with Flask.
- ✓ Implemented PostgreSQL for database management and Azure Blob for secure file storage.

Company: Avasoft, Chennai,   **Period: December 2023 – December 2024**
Role: Software Engineer | Coding Language: Python, JavaScript | Database: MySQL, PostgreSQL
- ✓ Specialized in developing next-generation AI applications and delivering innovative solutions.
- ✓ Integrated Azure OpenAI Service and AWS Bedrock to create advanced AI solutions.
- ✓ Collaborated with the development team to design and implement database structures and develop APIs using Flask, Sanic, Django, Fast API.

1)Project: LFS   **Period: December 2023 – February 2024**

Designed and implemented a web application (chatbot) for students to clear their doubts based on the uploaded knowledge. Implemented RAG by integrating LLMs with data search and AI responses.

Technology Involved:
- ✓ Created the front-end user interface using HTML, CSS, and JavaScript (React.js).
- ✓ Integrated Python and RESTful APIs using Flask, and incorporated Azure OpenAI Service and managed generative AI prompting for AI responses.
- ✓ The databases utilized were PostgreSQL and MongoDB.

2) Project: CloudGen   **Period: February 2024 – July 2024**

CloudGen is a drag-and-drop application designed to simplify cloud operations, enabling users to create services, estimate costs, and deploy them to the console with ease. The web application automates cloud processes using AI based on the requirement given by the Client, featuring a knowledge base for AI architecture generation and cloud deployment. It integrates Bot3 with Retrieval-Augmented Generation (RAG) for efficient data search and AI-driven responses. Additionally, cost estimation for each service is seamlessly implemented within the CloudGen application using Playwright.

Technology Involved:
- ✓ Created the front-end user interface using HTML, CSS, and JavaScript (React.js).
- ✓ Integrated Python and RESTful APIs using Flask, incorporated AWS Bedrock Service, and managed generative AI prompting for AI responses.
- ✓ The databases used were PostgreSQL and MongoDB.

3) Project: Zeb Pulse   **Period: July2023 – December 2024**

Designed and developed RESTful APIs to dynamically streamline each aspect of the AWS Well-Architected Framework Review with AI-driven insights and automation. This enabled businesses to optimize their cloud operations.

Technology Involved:
- ✓ Created the front-end user interface using HTML, CSS, and JavaScript (React.js).
- ✓ Integrated Python and RESTful APIs using Fast API, incorporated Azure OpenAI Service, and managed generative AI prompting for AI responses. The databases used were PostgreSQL and MS SQL.

Company: ClaySys Technologies, Coimbatore   **Period: July 2023 – October 2023**
Role: RPA Developer Intern | Development Tools: UiPath, RPA Genie.
- ✓ Created and maintained robotic automation workflows using UiPath and RPA Genie. Tested and troubleshooted automation processes to ensure smooth operation.
- ✓ Documented automation procedures, configurations, and troubleshooting steps. Collaborated with senior RPA
- ✓ developers to optimize and improve automation.

EDUCATIONAL QUALIFICATIONS

Qualification	College/School	Percentage	Year of Passing
B.E(Computer Science)	Karpagam Academy of Higher Education	83%	2023
Standard XII/HSC	Jayam Matriculation Higher Secondary School	72%	2019
Standard X/SSLC	Jayam Matriculation Higher Secondary School	80%	2017