Daryl Cletus Fernandes

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Education

Northeastern University, Boston, MA   Sept. 2023 – Expected Dec 2025
Masters of Science in Software Engineering Systems
> **Courses:** Cloud Computing, Data Structures, Big-Data Applications and Indexing Techniques, Data Science, Generative AI

Xavier Institute of Engineering, Mumbai, India   Aug. 2016 – May 2021
Bachelor of Engineering (Computer Engineering Branch)
> **Courses:** Object-Oriented Design, Algorithms, Computer Architecture, System Programming, Compiler Construction

Experience

CareerGPT, Boston, MA, USA   Dec. 2024 – April 2025
Software Engineer
- Developed an AI Agent that automates job applications on LinkedIn using Playwright and Gemini LLM
- Implemented WebRTC to stream a live browser view on a webpage, enabling users to interact and input MFA codes
- Created custom controllers for the AI Agent to interact with a database and Google Cloud Bucket, storing job details and match scores
- Migrated backend services from Node.js and Express to Python FastAPI, improving scalability and maintainability
- Integrated WebSockets to handle real-time socket connections between the frontend and backend
- Leveraged Google Cloud Pub/Sub for message-based triggering of the job application agent, optimizing workflow automation
- Deployed the AI Agent using Google Cloud Run, ensuring efficient execution and resource management

Infinite Analytics, Remote, Boston, MA, USA   Aug. 2021 – July 2023
Software Engineer
- Developed and maintained web applications using React.js for front-end and Flask for backend, supporting internal business processes in a high-collaboration, Agile environment
- Built RESTful APIs and microservices for seamless integration with databases and external services, optimizing application performance with tools like Redis for caching
- Enhanced user interface and experience by collaborating with UX teams, streamlining point-of-sale systems, and integrating data visualization tools like Chart.js and Plotly.js for real-time insights
- Created RESTful APIs to facilitate smooth data flow between internal databases and external services, reducing API response times by 30% using Redux caching and front-end optimization
- Implemented testing automation with Selenium to ensure UI functionality across browsers, significantly reducing testing overhead
- Actively participated in Agile development processes, coordinating with project managers and designers to ensure product quality
- Leveraged Git for version control, optimizing code collaboration and project workflow with cross-functional teams

Skills

Programming Languages: Python, JavaScript, Java, SQL, C#, Go
Web Technologies: React.js, Node.js, Flask, HTML, CSS3
Frameworks & Libraries: Chart.js, Plotly.js, Material UI, TensorFlow, Pytest, Keras, Langchain, scikit-learn, GraphQL, Google Gemini, Hugging Face Embeddings, FAISS
Tools: Git, Docker, Redis, RabbitMQ, Terraform, GCP, AWS, CI/CD, Postman, Github Actions
Development Methods: Agile, Scrum, Object-Oriented Design, Code Reviews, Unit Testing

Projects

Enhancing LLM Responses with Elasticsearch and FAISS   October 2024
> Developed a RAG system that combines Elasticsearch and FAISS for improved question answering, integrating Google Gemini for contextually rich responses.
> **Tools:** Python, Elasticsearch, FAISS, Google Gemini

Healthcare Plan Management API   May 2024 – Aug. 2024
> Created RESTful APIs for healthcare plans, leveraging Redis for data caching and Elasticsearch for efficient search, supported by asynchronous processing with RabbitMQ.
> **Tools:** Python, Flask, Redis, Elasticsearch, RabbitMQ

Cloud-Native API Deployment with CI/CD on GCP   Jan. 2024 – April 2024
> Developed backend for web application supporting health checks, user management, and email verification, deploying with Terraform and GitHub CI/CD workflows.
> **Tools:** Python, Flask, MySQL, Terraform, HashiCorp Packer, GCP