Elsa Luis

Aspiring Software Engineer

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Education:

Bachelor of Science in Computer Science (First Class Honours) (2019–2024)
Master of Science in Artificial Intelligence (Finishing September 2025,)

Skills

- Languages & Tools: Python, Java, Kotlin, MATLAB, Firebase, SQL, Git
- Concepts: Object-Oriented Programming, Test-Driven Development, Clean Architecture, Data Structures, and Algorithms
- Machine Learning: Supervised and unsupervised learning, regression, classification, clustering, and model evaluation
- Web Development: HTML, CSS, JavaScript
- Development Practices: Agile Development, SDLC, Git Version Control, Pair Programming

What I'm Learning

- Advanced AI concepts, including neural networks, NLP, and computer vision
- Exploring TensorFlow and PyTorch for scalable AI model deployment

Projects

Fuzzy Logic Simulation for Automatic Gearbox (MATLAB)

- Designed an intelligent system for optimizing gear transitions using MATLAB's fuzzy logic tools.
- Achieved seamless transitions across varying driving conditions, demonstrating advanced control algorithms.

Fitness App for Eating Disorder Management (Kotlin, Firebase)

- Developed a mobile app with a clean, responsive interface for fitness planning and tracking.
- Leveraged Firebase for real-time database operations, enhancing user experience and scalability.

- Focused on inclusivity by designing features specifically for individuals with eating disorders.

Cards Memory Game (JavaScript, HTML, CSS)
- Created an engaging browser-based game to improve memory and cognitive skills.
- Incorporated responsive design for compatibility with various devices.

Mobile Coffee Application (Kotlin, Firebase)
- Built a mobile application for coffee shop operations, including order and inventory management.
- Designed an integrated loyalty program system and ensured smooth database interactions with Firebase.
- Enhanced user satisfaction by automating manual processes and improving accessibility.

Attack Prediction Model (MATLAB)
- Designed a machine learning model to identify network attacks using the 1999 KDD Cup dataset.
- Performed data cleaning, feature selection, and implemented classification algorithms.
- Achieved high accuracy by optimizing the training pipeline and tuning hyperparameters.

Website for Accessories Store (HTML, CSS, JavaScript)
- Designed and developed a website for Fantasy Accessories to showcase their product catalog.
- Focused on creating a visually appealing and responsive interface for users to browse products.

Professional Experience

Health Care Assistant, PrimeLife, Leicester | Oct 2019 – Apr 2023
Provided compassionate care to patients, monitored health conditions, and collaborated with medical staff for tailored support.

Crew Member, McDonald's, Funchal | Sep 2018 – Aug 2019
Delivered high-quality customer service, managed transactions, and maintained cleanliness standards.

Customer Assistant, Fantasy Accessories, Funchal | Jan 2018 – Dec 2018
Assisted customers with purchases, handled payments, and contributed to stock organization.

Web Designer, Fantasy Accessories | Apr 2024 – Dec 2024
Designed a website for an accessories shop.

Languages

- Portuguese: Native
- Spanish: Fluent
- English: Fluent