

Lucas de Linhares

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EDUCATION

Polytechnic Institute of Viana do Castelo <i>Bachelor's Degree in Network and Computer Systems Engineering</i>	Viana do Castelo, PT <i>Sep. 2025 - Present</i>
Polytechnic Institute of Viana do Castelo <i>Higher Professional Technical Course in Information Systems Technologies and Programming</i>	Viana do Castelo, PT <i>Sep. 2023 - May 2025</i>
Monsserrate Secondary School <i>Professional Course in Electronics, Automation and Control</i>	Viana do Castelo, PT <i>Sep. 2020 - Jul 2023</i>

EXPERIENCE

Web Development Internship - Internal Platform Development <i>JCC - Diagnostic Imaging</i>	Feb 2025 - June 2025 <i>Viana do Castelo, PT</i>
<ul style="list-style-type: none">Developed a dynamic internal platform using Rust, Actix-Web, Svelte, TailwindCSS and MySQL/MariaDB, initially designed as a document management system, evolving into a comprehensive daily tool for all employeesImplemented systems for due date tracking, role-based access control, and notifications to enhance workflow efficiencyDeveloped a vacation booking system allowing employees to request time off and administrators to manage company-wide vacation schedulesCreated communication tools for administrators to send company-wide announcementsBuilt a flexible system where administrators can create and manage pages with customizable fields for various document management needs	
Machine Learning Internship <i>Ctrl + Alt DEV</i>	May. 2023 - July 2023 <i>Viana do Castelo, PT</i>
<ul style="list-style-type: none">Developed a machine learning model using TensorFlow, NumPy, Pandas and SciKit-Learn to predict maintenance needs of factory machines, improving efficiency and reducing costs	
Web Development and PLC Internship <i>Ctrl + Alt DEV</i>	May 2022 - July 2022 <i>Viana do Castelo, PT</i>
<ul style="list-style-type: none">Enhanced full-stack project for machine management using Node.js, Adonis, React.js and PostgreSQLIntegrated Programmable Logic Controllers (PLCs) with the existing systemContributed to feature design, debugging, and troubleshooting	

PROJECTS

Autism Support Automation Platform <i>Go, PostgreSQL, Nginx, React, Docker</i>	Sep 2023 - Jan 2024
<ul style="list-style-type: none">Selected as one of three volunteers for a special university project originating from the Netherlands, aimed at enhancing the lives of autistic individuals through technologyFocused on resolving access issues to FreshDesk on the platform, implementing solutions, deploying on the production server, and documenting the process for creating new automationsPerformed a careful analysis of the code, configuration files, and structures to identify and correct errors encountered during testing	
Automatic Cocktail Machine <i>Python, Raspberry Pi, FastAPI, React, PLC, Electronics</i>	Sep 2022 - May 2023
<ul style="list-style-type: none">Built an automatic cocktail machine with a touch HMI where users could select the desired cocktail; the system transported bottles along an axle that moved them under three dispensing taps for ingredient dosingDesigned and 3D-printed custom mechanical parts and three peristaltic pumps (one per tap)Implemented PLC control logic to coordinate axle motion and pump activation for precise ingredient dispensingDeveloped an interactive web UI hosted on a Raspberry Pi used for both monitoring and for remotely ordering cocktailsImplemented a custom communication protocol between the Raspberry Pi UI and the PLC to exchange commands and telemetry	
Freelance E-commerce <i>Astro, Svelte, TypeScript, Axum, Rust, PostgreSQL, Stripe, Cloudflare R2</i>	Nov 2020 - Present
<ul style="list-style-type: none">Develop and maintain a fully functional e-commerce website from design to deploymentImplement features for sales, product catalog management, and site optimization	
Discord Bot <i>Python, PostgreSQL</i>	Sep 2020 - Present
<ul style="list-style-type: none">Implemented a custom internationalization (i18n) system, supporting multiple languagesIntegrated with external APIs including YouTube Dislike API and Sponsorblock to enhance user experienceBuilt advanced audio functionality including filters, text-to-speech, and music auto-recommendationSupport for multiple platforms like YouTube, Spotify, Apple Music, Twitch, SoundCloud, Vimeo, and BandcampDeveloped media download capabilities with automatic format conversion to mp3 at 320kpbs bitrate	

TECHNICAL SKILLS

Languages: Python, Rust, JavaScript, TypeScript, HTML, CSS, SQL, C, C++, Zig, Go, C#, Java, Shell Scripting

Frameworks: React, Node.js, Tailwind CSS, Svelte, Astro, FastAPI, Django, Tauri, Actix-Web, Angular, Ionic, TensorFlow, Stripe

Developer Tools: Git, Docker, GitHub, GitHub Actions, Netlify, Vercel, Linux, CMake