Lucas de Linhares

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EDUCATION

Polytechnic Institute of Viana do Castelo   Viana do Castelo, PT
Bachelor's Degree in Network and Computer Systems Engineering   *Sep. 2025 - Present*

Polytechnic Institute of Viana do Castelo   Viana do Castelo, PT
Higher Professional Technical Course in Information Systems Technologies and   *Sep. 2023 - May 2025*
Programming

Monserrate Secondary School   Viana do Castelo, PT
Professional Course in Electronics, Automation and Control   *Sep. 2020 - Jul 2023*

EXPERIENCE

Web Development Internship - Internal Platform Development   Fev 2025 - June 2025
JCC - Diagnostic Imaging   *Viana do Castelo, PT*

- 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 employees
- Implemented systems for due date tracking, role-based access control, and notifications to enhance workflow efficiency
- Developed a vacation booking system allowing employees to request time off and administrators to manage company-wide vacation schedules
- Created communication tools for administrators to send company-wide announcements
- Built a flexible system where administrators can create and manage pages with customizable fields for various document management needs

Machine Learning Internship   May. 2023 - July 2023
Ctrl + Alt DEV   *Viana do Castelo, PT*

- 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   May 2022 - July 2022
Ctrl + Alt DEV   *Viana do Castelo, PT*

- Enhanced full-stack project for machine management using Node.js, Adonis, React.js and PostgreSQL
- Integrated Programmable Logic Controllers (PLCs) with the existing system
- Contributed to feature design, debugging, and troubleshooting

PROJECTS

Autism Support Automation Platform | *Go, PostgreSQL, Nginx, React, Docker*   Sep 2023 - Jan 2024
- Selected as one of three volunteers for a special university project originating from the Netherlands, aimed at enhancing the lives of autistic individuals through technology
- Focused on resolving access issues to FreshDesk on the platform, implementing solutions, deploying on the production server, and documenting the process for creating new automations
- Performed a careful analysis of the code, configuration files, and structures to identify and correct errors encountered during testing

Automatic Cocktail Machine | *Python, Raspberry Pi, FastAPI, React, PLC, Electronics*   Sep 2022 - May 2023
- 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 dosing
- Designed 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 dispensing
- Developed an interactive web UI hosted on a Raspberry Pi used for both monitoring and for remotely ordering cocktails
- Implemented a custom communication protocol between the Raspberry Pi UI and the PLC to exchange commands and telemetry

Freelance E-commerce | *React, TypeScript, Django, Python, PostgreSQL, Stripe*   Nov 2020 - Present
- Develop and maintain a fully functional e-commerce website from design to deployment
- Implement features for sales, product catalog management, and site optimization

Discord Bot | *Python, PostgreSQL*   Sep 2020 - Present
- Implemented a custom internationalization (i18n) system, supporiting multiple languages
- Integrated with external APIs including YouTube Dislike API and Sponsorblock to enhance user experience
- Built advanced audio functionality including filters, text-to-speech, and music auto-recommendation
- Support for multiple platforms like YouTube, Spotify, Apple Music, Twitch, SoundCloud, Vimeo, and Bandcamp
- Developed media download capabilites with automatic format conversion to mp3 at 320kbps bitrate

TECHNICAL SKILLS

Languages: Python, Rust, JavaScript, TypeScript, HTML, CSS, C, SQL, 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