RENATO CARDOSO

SOFTWARE ENGINEER

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🌐 guildb.github.io/Profile

SKILLS

- **Full-Stack Development:** Proficient in developing front-end interfaces with Vue.js, React, and Tailwind, and building scalable back-end systems using Flask, Node.js, and Express.

- **Database Management:** Experience with relational and NoSQL databases including PostgreSQL, MySQL, and MongoDB, with a focus on data modelling and efficient query design.

- **Problem-Solving & Software Design:** Strong ability to design algorithms and data structures, apply object-oriented principles, and build optimized software solutions.

- **Agile & DevOps Practices:** Skilled in Agile methodologies such as Scrum and Kanban, as well as DevOps practices to ensure smooth collaboration and continuous delivery.

- **Testing & Reliability Engineering:** Knowledge of software testing techniques and strategies to ensure the robustness and reliability of applications.

- **Web Application Development:** Experienced in building interactive and responsive web applications using modern web technologies like HTML5, CSS3, JavaScript, Vue.js, and React.

PROFILE

I am a highly skilled and dedicated software engineer with a first-class Honours degree in Software Engineering from Solent University, UK. I possess a robust foundation in full-stack development, with expertise in front-end and back-end technologies such as Vue.js, React, Tailwind, Flask, Node.js, and PostgreSQL. My academic background, coupled with hands-on project experience, has equipped me with the ability to design, develop, and maintain complex web applications. Additionally, I have a solid grasp of Agile and DevOps methodologies, allowing me to collaborate effectively within cross-functional teams to deliver scalable and reliable software solutions. I am passionate about leveraging technology to solve real-world problems and eager to take on new challenges in mission-critical environments.

EDUCATION

Bachelor of Science (BSc) (Hons) in Software Engineering - First-Class Honours

Solent University, UK (2021-2024)

- Developed a strong foundation in software development, problem-solving, and emerging technologies.
- Gained proficiency in programming languages such as Python, Java, and JavaScript, focusing on data structures, algorithms, and object-oriented design (OOD).
- Practical experience in database management systems with SQL and NoSQL databases, including PostgreSQL, MySQL, and MongoDB.
- Studied web technologies such as HTML, CSS, JavaScript, and PHP to build dynamic, client-server applications.
- Explored networking and security principles, working with network simulators to apply real-world networking protocols and technologies.
- Worked on mobile app development and web application development, utilizing Vue.js, React, and Tailwind.
- Focused on DevOps practices, including CI/CD pipelines, automation, and cloud platforms like AWS and Azure.
- Conducted in-depth research for a dissertation project, developing a functional software solution using Python, Flask, and PostgreSQL.
- Studied data science techniques such as data visualization, prediction algorithms, and data pre-processing using Pandas, NumPy, and Matplotlib.
- Collaborated on an industrial consulting project, solving real-world problems in partnership with external organizations.

PROJECTS

Matching Project Allocation System

2024 – Final Year Project

- Designed and developed a web application to automate the allocation of tutors to students for their final year projects.
- Implemented a dynamic, user-friendly interface using Vue.js, and a back-end API with Flask and PostgreSQL for database management.
- Delivered a successful solution that significantly reduced manual intervention in the project assignment process.

3D Printing Order Management System

2023 – University Project

- Developed a Node.js-based order management system for 3D printing services, allowing users to submit print jobs and track their progress.
- Integrated MongoDB for data storage and managed real-time updates on job status, improving workflow efficiency.

EXPERIENCE

Front-End Developer (Vue.js)

DataMango, UK 2024

- Developed and integrated the front-end of a carbon footprint measurement application for a sustainability startup.
- Used Vue.js and Tailwind for responsive design and vue-chartjs for data visualization, creating an intuitive and user-friendly interface that integrated seamlessly with back-end services.
- Worked closely with the back-end team to ensure smooth data flow and optimized performance, contributing to the success of the project by adhering to Agile development practices.

DevOps & React Developer

Personal Project, UK 2023

- Collaborated within a team to design and develop a full-stack web and mobile application for managing points of interest (POI) across a city.
- Focused on React front-end development and integrated OpenStreetMap for real-time POI visualization, ensuring the map was fully interactive and responsive.
- Implemented DevOps practices to streamline deployment and CI/CD, ensuring smooth project rollouts and high-quality code through automated testing and version control.

IT Technician

EletroBit, Portugal 2018 – 2019

- Provided technical support to customers, diagnosing and resolving hardware and software issues in a timely manner.
- Managed inventory and stock levels for IT equipment, ensuring availability of critical components for business continuity.
- Led troubleshooting, maintenance, and repair efforts for systems, contributing to a significant reduction in downtime and improved operational efficiency.

Security Systems Technician

GLM System, Portugal 2016 – 2017

- Installed and maintained complex security systems, including CCTV, fire alarms, and network security systems, ensuring the safety and security of client premises.
- Worked directly with clients to understand security needs and design tailored solutions, improving overall client satisfaction and system performance.

Intern Computer Assistant

ISPgaya, Portugal 2014 – 2014

- Provided IT support to students and staff, handling troubleshooting and maintenance of various IT systems.
- Maintained school-wide IT infrastructure, ensuring equipment was fully functional and up to date, supporting daily academic and administrative tasks.