Eyji Koike Cuff

Caxias do Sul, Brazil | eyji.koike@gmail.com | +55 54 981 62 91 15 | github.com/eyji-koike |
https://eyjikoikecuff.com/

Professional Summary

Full-Stack Software Engineer with 4+ years of experience in developing robust web applications. Proven track of using Python, React, Node, and AWS to speed up web application performance up to 10 times with growing expertise in modern AI.

Skills

Programming: Python (Django, FastAPI, Flask), C (Embedded systems, RTOS), JavaScript, React.js (TypeScript, Next.js), Terraform (Infrastructure as Code, IaC), Node.js
Tools: Selenium, Puppeteer, Hasura, REST APIs, AWS (Lambda, SQS, ECS, DynamoDB, S3, CloudWatch), Vercel, Supabase
AI/ML: Generative AI (Prompt Engineering, RAG Pipelines, Hugging Face), LLM orchestration (LlamaIndex, LangChain), Vector Databases (ChromaDB, FAISS)
Languages: Portuguese, English, Spanish

Experience

Testbox Inc.   May 2024 – Present
Software Engineer (Customer Integrations)   California, USA (Remote)

- Built and maintained integrations with **customer APIs** to ingest data and automate scheduled activities, powering dynamic and realistic demo environments.
- Developed and optimized backend services using **Python (Django)**, **AWS**, and **Hasura**, while extending integrations with light **TypeScript** contributions.
- Enhanced reliability and observability of demo pipelines, supporting a **99.9% uptime SLA** through proactive monitoring and automated recovery workflows.
- Proposed, engineered, and deployed a cache-aside system with Elasticache to optimize our queries and Lambda execution, reducing in 10 times the query execution time.

Eztronic   Oct 2022 - May 2024
Software Engineer   Caxias do Sul, Brazil

- Engineered full-stack software that interacts with cloud and distributed devices utilizing React.js, Node.js, and Python over BLE, Serial, and Ethernet.
- Constructed data pipelines within a Docker-based operational system to capture sensor data in 600hz and display it live on a local web page.
- Led projects directly with clients to gather requirements, define technical scopes, and deliver customized solutions that met performance and budget goals.
- Engineered firmware for microcontroller-based devices using C/C++, enabling real-time telemetry.

Auttom   Aug 2022 - Mar 2023
Business Data Analyst Intern   Caxias do Sul, Brazil

- Supported business intelligence and project coordination efforts by developing interactive dashboards and automating reporting processes.

- Custom data visualizations are built using Power BI and scripted ETL pipelines in Python to streamline decision-making between departments.
- Assisted project managers in daily routines, including task tracking, stakeholder communication, and timeline coordination.

Federal Institute of Education, Science, and Technology   Oct 2021 - Oct 2022
Research Intern   Caxias do Sul, Brazil

- Volunteered in the development of an IoT turnstile proof of concept, producing the firmware written in C and a secure cloud infrastructure in Google Cloud Platform, and Firebase for the deployment to reduce latency, reaching a 2s delay between the sensor and the front end.
- Collaborated with front-end developers to deploy a Python front-end with React.js to stream data in real-time, and project leads to produce a pitch and present it to the sponsor company as a valuable modernization option for their product.
- Educated teenagers in a low-income school to entice their curiosity and promote STEM education.

Education

Federal Institute of Education, Science and Technology   Caxias do Sul, Brazil
Bachelor's, Production Engineering. Average 9 on a scale of 10   Aug 2023
Thesis: Internet of Things in a Production Engineering context: a framework focused on professional skills
Relevant Coursework: **Operations Research, Linear Algebra, Calculus, Differential Equations, Statistics and Probability, Project Management.**
Awards: Awarded the Community College Initiative Scholarship

Study Abroad - Sinclair Community College   Dayton, USA
One-year certificate, Industrial Internet of Things. GPA 3.9 on a scale of 4   May 2022
Opportunity awarded as part of the Community College Initiative program sponsored by the U.S. Bureau of Educational and Cultural Affairs and the Community College Consortium.
Relevant Coursework: **Digital Electronics, Database Management, Networks, Network Security, Microcontrollers, C/C++.**
Awards: Honors in Database Management

Courses and Specializations

IBM RAG and Agentic AI: Build Next-Gen AI Assistants   Jun 2025
Coursera   IBM

- On track for a professional certificate with 6 out of 8 courses completed.
- Explored how vector databases like FAISS and ChromaDB differ from standard ones and gained practical knowledge on how to create document collections, manage embeddings, and perform similarity searches in Python.
- Leveraged Python's Flask, LLMs, Hugging-Face, and Vector Databases along with Prompt Engineering to build Gen-AI-enabled applications to help corporate customers with product issues

Meta: Basic and Advanced React   Oct 2025
Coursera   Meta

- Practiced knowledge on React Hooks, creating custom hooks, and utilizing useRef, useEffect, and fetch.
- Applied higher-order components to solve mutability issues
- Leveraged Context API to share state across components and refresh only desired components