Ting Xu

FullStack Engineer

Innovative FullStack Engineer and technology solution finder, eager to leverage expertise in General AI and system automation to develop scalable solutions that enhance workflow efficiency on a global platform.

📱 (314)-224-6046

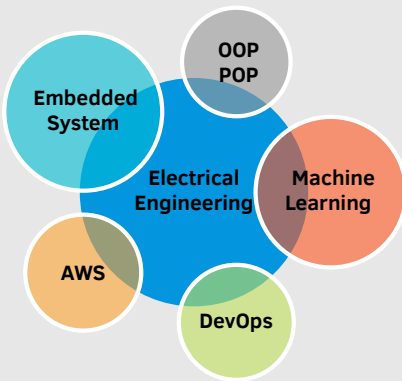🌐 tingrubato.github.io/Portfolio/

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in /in/7m-xu

⬤ tingrubato

Technical Skills ———

Overview

Self-Assessed Skills

C, Python, REST API, Shell, Docker

RTOS, Grafana, Machine Learning, Git

C#, SQL, Selenium, LangChain, AWS

Node.js, Tableau, Pinecone, Vmware

Other

PostgreSQL, Embedded System Design, MATLAB, Prometheus, Proxmox, Data Analysis, Java

Education ———

MSc., Electrical Engineering
Specialization: Embedded System
Washington University in St. Louis
2021 - 2023 | St. Louis, MO

BEng., Electrical Engineering
Shanghai Maritime University
2017 - 2021 | Shanghai, China

Experience

June 2023 - Present — **New Technology Advancement Specialist**   X2 Derivatives LLC
- Developed a GPT-based knowledge bot designed to counteract the hallucination issues common in current language models by providing citation-backed answers.
- Enhanced engineering teams' efficiency by enabling precise and reliable references to technical documents through the bot's citation feature.

Sep 2021 - May 2023 — **Technical Support**   Washington University in St. Louis
- Streamlined routing for the tech support group by analyzing daily operations, significantly reducing travel distances and boosting campus-wide efficiency.
- Automated the pricing inquiry process for an EdTech project by developing a Python script with Selenium to systematically gather pricing data from vendor websites.

Sep 2020 - Jun 2021 — **Research Assistant**   Shanghai Maritime University
- Conducted research on thrust allocation and developed an optimized algorithm using MATLAB.
- Transformed the user experience and interface for ROV control by using .NET and C# to integrate a PS4 Controller, making it easier for non-professional users to operate and improving both accessibility and innovation in how users interact.

Jul 2019 - Sep 2019 — **Embedded System Engineering Intern**   Hochschule Emden Leer
- Developed and implemented device drivers for sensors with SM-Bus/I2C interfaces on the nRF52840 platform using Embedded C for Riot-OS.
- Enhanced the testing efficiency by automating the process through the development of a dedicated testing program.

Projects

Nov 2023 - Jan 2024 — **EZZY JOB: Your All-in-One Job Application Center**   St. Louis
- Developed a Node.js job application tracker with enhanced UI/UX using React and integrated Grafana for real-time insights.
- Created a backend scraper to automatically collect the latest job postings from Indeed, tailored by location and position.
- **Tools**: Selenium, Grafana, PostgreSQL, REST API, Node.js, Docker

Apr 2023 - Jun 2023 — **Pulse Pace: A Metronome using TENS Unit**   Out in Tech
- Innovated an embedded system merging Raspberry Pi, TENS, and AWS IoT for rhythmic muscle stimulation in musicians, boosting timing and performance.
- Deployed AWS IoT for remote metronome control and sync, pioneering advancements in music tech and performance enhancement.
- **Tools**: AWS IoT, I^2C, Python, AWS Lambda

Award

2019 — **Deutscher Akademischer Austauschdienst(DAAD)**   Germany
Ref. No.: 91753533
Program: PraktikantenplätzefürausländischeStudierendederNatur- und Ingenieurwissenschaften sowie der Land- und Forstwirtschaft (IAESTE), 2019 (57423938)