

DARYL ANG JIA JUN

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EDUCATION

National University of Singapore (NUS)

08/2020 - 07/2024

Bachelor of Engineering (Electrical Engineering), Minor in Japanese Language

- Grade Point Average: 4.61 out of 5.00
- Courses: Calculus, Differential Equations, Linear Algebra, Digital Design, Microcontroller Programming and Interfacing, Electronic Circuits, Signals and Systems, Electromagnetics, Electrical Grids, Machine Learning, Signal Analytics, Image Processing and Analysis

Osaka University

04/2023 - 08/2023

Osaka University Short-term Student Exchange Program (OUSSEP)

- Courses: Intelligence and Learning, Health Service and Medical care in Japan, Japan: Society and Ideology, Intro to Japanese law, Osaka in Modern Japanese Literature, Managing Innovation and Change
- Volunteered in Project HELP, mentoring Osaka University students for the IELTS exam. Taught two students and received a certificate of completion.

WORK EXPERIENCE

Kotozna Inc., Software Engineer [Tokyo, Japan]

08/2024 - Present

Tech stack: Vue.js, Python, Go, MySQL, AWS

- CI/CD and DevOps Improvements: Implemented the uv package manager across multiple Python backend projects. Enhanced Bitbucket Pipelines with Snyk, Trivy, Bandit, Gitleaks, Mypy, Ruff, and Deptry for automated security, quality, and dependency checks.
- Codebase Modernization: Migrated legacy Vue 2 applications to Vue 3, transitioned a vector search database from FAISS/Redis to Pinecone, and upgraded AWS Lambda deployments from ZIP-based to Docker image-based functions.
- Frontend Development: Designed and developed a high-performance, multi-filter analytics dashboard for Kotozna TPG's admin panel, enabling visualization of user conversation data and trends. Utilized Chart.js for responsive, interactive bar, line, and pie charts.
- Backend Development: Built and maintained GraphQL APIs in Python to power the admin panel dashboard.
- Monitoring and Troubleshooting: Diagnosed and resolved production issues using AWS CloudWatch, BigQuery, Datadog, etc.

PROJECTS

Bachelors' Thesis: Design of a Data Efficient Cross-Corpus

08/2023 - 04/2024

Speech Emotion Recognition System based on Deep Learning

- Trained and evaluated models on emotional speech datasets (TESS, SAVEE, RAVDESS, IEMOCAP) for cross-corpus emotion recognition.
- Studied and applied algorithms for generative/discriminative domain adaptation and generalization.
- Built neural networks using PyTorch, NumPy, Pandas, Librosa, Matplotlib, and Seaborn.

Software-Defined Radio and Analog Filter Design

08/2023 - 11/2023

- Employed PlutoSDR, RTL-SDR, Analog Discovery 2, LTspice, and GNURadio to generate, transmit, and analyze signals under interference.
- Designed higher-order op-amp filters to suppress noise and achieve desired packet success rate (PSR).
- Transmit and receive two different message signals with Binary Frequency-Shifting Keying (BFSK) modulation using Time Division Multiple Access (TDMA).

LANGUAGES

- English: Native
- Japanese: Upper Intermediate–Advanced (JLPT N2); fluent in daily and professional communication
- Mandarin Chinese: Basic conversational level

SKILLS

Frontend

Vue.js (TypeScript, Vite, Vue Router, Pinia, vue-i18n, Axios)



Styling (Scoped CSS, Vuetify, Quasar)



Testing (Testing Library, Cypress)



Astro



Learning: React, Svelte

Backend

Python (FastAPI, Flask, SQLAlchemy, GraphQL, asyncio)



Go (Gin)



Node.js, Express.js



MySQL



Infra

Docker, Docker Compose



Bitbucket pipelines



AWS (ECS, Lambda, SQS, SNS, RDS, ElastiCache, S3, SSM Parameter Store)



Terraform



Learning: Linux, Shell scripting

Others

Python frameworks – NumPy, Pandas, Matplotlib, PyTorch

Programming languages – C, ARM Assembly

Software – MATLAB, LTspice, LaTeX

Electrical Engineering & Hardware – Analog Discovery 2, RTL-SDR and PlutoSDR Software Defined Radio, Raspberry Pi 4, Raspberry Pi Pico, Arduino, STM32 discovery board, Basys 3 FPGA development board