Brandon Pratama Kwee

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Key Skills

Programming Languages: Python, Java, JavaScript/TypeScript, C++, GLSL
Frameworks & Libraries: React, React Native, Flask, TenserFlow, Scikit-learn, OpenCV
Machine Learning: Deep Learning, Computer Vision, NLP, Predictive Modeling
Cloud & Tools: AWS Certified Cloud Practitioner (Foundational), Git/GitHub, Figma, Blender

Additional Tools: HTML/CSS, Tailwind CSS, SQLAlchemy, Pandas, Matplotlib, Three.js (R3F), Keras, Matlab, Astah

Education

Ritsumeikan University (立命館大学**)** Osaka, Japan
College of Information System Science and Engineering *Graduation Date: Apr 2028*
Cumulative GPA: 4.83 / 5.0
Relevant Coursework: Data Structure & Algorithms, Computer Networks, Software Engineering, DSP

Osaka Japanese Language Education Center (大阪日本語教育センター) Osaka, Japan
Japanese Language Learning : Completed intensive Japanese program *Oct 2022 – Mar 2024*
Achieved proficiency in Japanese Language (JLPT N2 equivalent)

Projects

Smart Travel Application | Project Manager, Data Preprocessing *April 2025 – June 2025*
Cross-Platform app prototype (React Native + Flask + SQLAlchemy) recommending tourist spots and connecting users with similar interests.

- **Led a 5-person team**, managing weekly meetings and presented the team's prototype to **40+** students, graduate students, and professor alongside a teammate.
- **Created Figma Mockups** for the frontend and produced required architecture documentation.
- **Curated and prepared 80.000+ datapoints** to support the recommendation engine using **Python (Pandas).**

3D Portfolio Website | Frontend Developer *Mar 2025 – Present*
Immersive portfolio site showcasing 3D graphics with React Three Fiber and GLSL.

- Engineered an interactive underwater environment with **React Three Fiber** and **Custom GLSL shaders** to achieve realistic lighting and underwater effects.
- Deployed globally on **AWS (S3+CloudFront+Route 53)**, enabling fast access from any region, ~200ms TTFB in Asia / North America (measured via catchpoint).

Pollen Mapping System | Team Lead, Full Stack Developer *Oct 2024 – Jan 2025*
Web app prototype that lets users upload plant photos to identify allergenic species and view pollen spread maps.

- **Built REST APIs** in Flask and integrated a pre-trained ML model for real-time predictions and backend tested locally with **50 simulated requests**, achieving **~0.2s per request and 100% success rate.**
- **Developed React frontend** with GIS visualization to upload images, extract geolocation metadata, and interactively display pollen maps.
- **Designed SQLAlchemy database** to store classifications and geolocation data, supporting scalable data retrieval and visualization.

Certificates & Awards

AWS Certified Cloud Practitioner (Foundational) *2025*
Passed the Amazon's certification for Cloud Practitioner

AWS Certified AI Practitioner (Foundational) *2025*
Passed the Amazon's certification for AI Practitioner

Japanese-Language Proficiency Test N1 (JLPT N1) *2024*
Passed JLPT N1

International English Language Testing System (IELTS) *2022*
7.5 Overall Band Score

Nikki Jitsukichi Scholarship (2025)**, Saionji Memorial Scholarship** (2025), **JASSO Scholarship** (2024 – 2025)