

Work Experience

Control Flow Labs

Nov 2024 - Present

Lead Software Engineer

Taguig, Philippines

Control Flow Labs builds and scales AI-driven ventures, turning innovative ideas into successful tech businesses.

Tech Stack: Python, AWS, Docker, Flask, Serverless, MongoDB, Next.js, Sentry, CloudWatch, Github Actions

- **Mentored and managed a team of 6 developers** while leading architecture and feature delivery, ensuring high engineering standards and faster product iterations.
- **Architected and deployed a scalable, container-based streaming infrastructure on Google Cloud Run**, handling dynamic traffic loads and reducing deployment complexity for core services.
- **Improved API performance and concurrency by implementing the Litestar framework** for core backend services, while leveraging FastAPI to build and maintain robust Server-Sent Events (SSE) for real-time user notifications.
- **Built a complete CI/CD and observability stack (Cloud Build, Sentry, AWS CloudWatch)** that automated testing and deployment, reduced production errors, and enabled real-time error alerting across API and frontend services.

Associate Software Engineer

Jul 2024 - Nov 2024

Tech Stack: Python, Flask, MongoDB, AWS (Lambda, ECS Fargate, ECR), Next.js, OpenAI, Porkbun, Github Actions

- Enabled scalable and efficient communication for medical clinics by **supporting ~2,000 WhatsApp messages per week across multiple organizations and branches** through the development of a multi-number, multi-org messaging platform using Flask, MongoDB, AWS (ECS, Lambda), and Next.js.
- **Improved after-hours response coverage and patient engagement** by capturing 35% of messages sent outside CSR hours (~4,000/day) through the development of an AI chatbot powered by OpenAI.
- **Increased CSR efficiency and reduced response time** by saving an estimated 3–5 minutes per conversation through a Chat Summary feature that extracts and presents key insights from the latest 50 messages.
- **Streamlined case resolution and boosted consultation conversions** by resolving conversations to convert ~30% of messages into consultations through an AI-powered ticketing system that detects intent and triggers handoff workflows.
- **Contributed to the launch of the product landing page craig-ai.com** by enabling internationalization (i18n) in Next.js, automating deployments via GitHub Actions, and managing domain setup and maintenance through Porkbun.

Software Engineer (Part Time)

Mar 2024 - Jul 2024

Tech Stack: Python, Google Maps, AWS, Docker, Flask, Serverless, MongoDB, Supabase, Render

- **Developed a Retrieval-Augmented Generation (RAG) system** using Python, Flask, AWS Lambda, and MongoDB, achieving ~90% accuracy for generated content, enabling the creation of complete travel itineraries.
- **Built a Proof-of-Concept (POC) for the RAG system within one month**, leveraging cost-efficient solutions like MongoDB Atlas Free Plan, AWS Lambda Free Tier, GitHub Pages, and Google Domains.
- **Deployed three serverless Lambda functions** to optimize system scalability and reduce operational complexity.
- Utilized Docker to containerize the Flask application, **reducing setup time for local testing by 50% and ensuring 100% consistency** in deployment across development and production environments, minimizing deployment errors.

Lately Everything Needs Analytics

May 2024 - Jul 2024

Junior Data Engineer

Remote

LENA provide personalized end-to-end data solutions to both leaders of industries and to SMEs that are looking for an edge.

Tech Stack: DBT, SQL, Python, Snowflake, AWS

- **Reduced duplicate data in the ETL pipeline by 90%** by implementing a data transformation script using DBT and SQL.
- **Improved data quality and reliability** by creating pre-load data test scripts using DBT, ensuring only clean and validated data was loaded into Snowflake.

Enstack

Aug 2023 - May 2024

Software Engineer

Taguig, Philippines

Enstack is a one-stop shop for all your small business needs and help you sell your products or services to customers.

Tech Stack: Django, Flask, AWS, CDK, Docker, VueJS, Flutter

- **Increased development speed by 133%** by refactoring a Django monolith into a microservice architecture using Flask and the Serverless Framework.
- **Expanded platform coverage for pickups and deliveries** by integrating two third-party logistics providers, improving overall service availability.
- **Reduced deployment time by 75% by implementing a CI/CD pipeline** for database migrations and microservices deployment on AWS EC2 and ECS.
- **Improved operational efficiency by 80%** by developing an internal automation tool that streamlined document processing for the operations team.

Work Experience

Kadakareer

Oct 2021 - Aug 2023

Data & Tech Workstream Lead

Remote

KadaKareer is a free low-bandwidth, community-based career development platform for underserved students in the Philippines launching their digital careers!

Tech Stack: Python, Looker Studio, SQL

- **Drove a 160% increase in workshop engagement** by analyzing academic calendars to identify optimal and suboptimal dates for hosting student events.
- Boosted community and product engagement by **developing a Python-based Discord bot** that connects KadaKareer products to Discord, targeting increased interaction across a 400+ member community and ~45,500 website visitors.

Dashlabs.ai

Jun 2022 - Aug 2022

Data Analytics Intern

Remote

Dashlabs is providing the world's first DIY lab software, bridging the gap between labs and hospitals, and making quality healthcare accessible for all Filipinos

Tech Stack: Python, MongoDB, Github, SQL

- **Improved data team productivity by 50%** and **accelerated client request analysis by 1.5x** by structuring a centralized GitHub repository that streamlined various analytics workflows.
- Enabled the partner laboratory to gain clear insights into patient demographics by **building a reporting dashboard that automated data collection and aggregation** using Python, MongoDB, and SQL.

Projects

Frontend Developer - Munchkin Game Aid

May 2026

A web-based combat and score tracker for the Munchkin tabletop card game, giving players a fantasy-themed dashboard to manage levels, modifiers, and combat outcomes during gameplay.

Tech Stack: HTML

Game Developer - IAM Please

March 2026

IAM Please is a Papers, Please–inspired browser game that teaches cloud security through document-inspection gameplay.

Tech Stack: Supabase, HTML5, Javascript

Backend Developer - Hackathons PH

April 2024

The Hackathons PH Backend project is a Flask-based application designed to list hackathons occurring in the Philippines.

Tech Stack: Supabase, Flask

Certifications

AWS Certified Cloud Practitioner

May 16, 2025

Credential ID: a38a6e1c2b5a4a45a2102ec877604d77

Expires on May 16, 2028

Validates foundational understanding of the AWS Cloud, including core services, security, architecture, pricing, and support, along with the ability to identify appropriate AWS solutions for common use cases.

Github Foundations

November 17, 2024

Credential ID: 735b5e6a-9172-462a-b2a4-7da0e4161117

Expires on Nov 17, 2027

Passing the GitHub Foundations certification exam validates subject matter expertise by measuring entry-level skills with GitHub basics like repositories, commits, branching, markdowns, and project management.

Languages, Tools, and Frameworks

- **Languages:** Python, Javascript, Typescript, SQL, Java, R, Dart, Go
- **Tools:** Github, Git, Tableau, PostgreSQL, SQL, MariaDB, MongoDB, Firebase, Docker, AWS, GCP, Snowflake, Figma
- **Frameworks:** FastAPI, Flask, Django, Tailwind CSS, Spring, NextJS, Serverless, Flutter, React, Vue, Litestar

Education

Pamantasan ng Lungsod ng Maynila (University of City of Manila)

Aug 2019 - Sep 2023

Bachelor of Science in Computer Science - Magna Cum Laude

Manila, Philippines

Amazon Web Services (AWS)

May 2022 - Aug 2022

AWS re/Start Program Learner

Manila, Philippines

AWS re/Start is a free program that helps people develop skills for entry-level and mid-level cloud computing careers. The program is offered by Amazon Web Services (AWS) and is designed to help people who are unemployed or underemployed.