

# GAILLE A. AMOLONG

AI Engineer & Software Engineer & AWS Cloud Architect

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## SUMMARY

I'm a software engineer with a solid full-stack programming foundation, bringing a creative edge and technical expertise to projects. Well-versed in web development, design, database management, and server-side operations, I thrive in delivering top-notch user experiences. Having participated in numerous AI projects and completed courses in Deep Learning and Machine Learning, I am now expanding my skill set to include AWS Cloud Architecture. Let's collaborate and transform your innovative ideas into reality.

## WORK EXPERIENCE

### Software Engineer, Bitwork Solutions

August 2023 - Present  
Melbourne, Florida (Remote), USA

- Migrated legacy HTML, CSS, and JavaScript websites to modern frameworks using NextJS and TailwindCSS, significantly improving performance, maintainability, and responsiveness.
- Enhanced web development projects by integrating TypeScript with NextJS, providing robust type-checking, reducing bugs, and improving overall code quality.
- Utilized remote SSH and remote Windows Subsystem for Linux (WSL) servers to manage and deploy applications, ensuring smooth and secure server operations.
- Conducted training sessions for new full-stack employees, educating them on software configurations and best practices to accelerate their onboarding process.
- Containerized applications using Docker to create consistent development environments, simplify deployment, and improve scalability.
- Developed personal AI projects under the mentorship of a senior AI engineer, gaining hands-on experience with machine learning algorithms, neural networks, transformers, and data analysis.
- Performed bug fixing and implemented security enhancements to improve application stability and protect sensitive data.
- Developed and maintained API layers (and serializers) to facilitate seamless data exchange between frontend and backend systems.
- Designed and optimized database layers, ensuring efficient data storage, retrieval, and management using SQL databases.
- Gained a solid foundation in modern web development practices and a keen understanding of the latest industry trends by staying updated with new technologies and frameworks.
- Worked with AWS Cloud S3 for object management, utilizing its capabilities for scalable storage solutions and efficient data handling.

### Full-Stack Freelance Software Developer, TidalStack

January 2024 - March 2024  
Remote

- Developed backend systems, API layers, and database layers using Django and Django-Rest-Framework.
- Contributed to developing the frontend of TidalStack using HTML, CSS, and JavaScript.

### Head Developer, Minglanilla Science High School

March 2023 - March 2024  
Minglanilla, Cebu, Philippines

- Led the creation of the official school web application featuring two news websites and a customized homepage.
- Leveraged Django to establish a secure user authentication system and profile management functionality.
- Orchestrated Django's framework to streamline database interactions and ensure efficient server-side handling.
- Leveraged JavaScript to elevate the frontend user experience, yielding seamless navigation and captivating interactivity.
- Implemented Docker for efficient containerization, Railway for Cloud Deployment, and Git for version control.
- <https://www.officialmingsci.com/>

#### Key Achievements:

- Spearheaded the design and implementation of a user-friendly interface, fostering heightened user engagement and garnering positive feedback.
- Led collaboration with a partner to seamlessly integrate intricate backend functionalities, facilitating effective communication between frontend and backend systems.
- Introduced reCAPTCHA security measures to fortify user data and ensure a safe browsing environment.
- Personally developed major components, including managing database interactions and overseeing overall project architecture.

## EDUCATION

### Cebu Institute of Technology

Cebu City, Cebu, Philippines

Bachelor of Science in Computer Science (2024-2028)

### Minglanilla Science High School

Minglanilla, Cebu, Philippines

High School - STEM Strand

High Honors & Excellency in Research and Innovation

- Project PhEASYCS** - Physics Excogitation Utilizing Artificial Intelligence System (Deep Neural Network) To Yield Comprehension for Students
- Thesis (Qualitative study):** The Role of Artificial Intelligence in Organizational Structure and Culture of Employees in the IT company

## CERTIFICATIONS

For more information of Gaille's certifications, click this link: <https://gailleamolong.vercel.app/certifications>

### Harvard University (2020-2023) - 5 courses

### Yale University (2024)

- [CS50P](#) - Introduction to Programming with Python
- [CS50X](#) - CS50's Introduction to Computer Science
- [CS50Web](#) - Web Programming with Python and JavaScript
- [CS50AI](#) - Introduction to Artificial Intelligence with Python
- [CS109x](#) - Data Science with Python

- [Financial Markets Course](#)

### Udemy

- [NextJS and React - The Complete Guide](#)

## DeepLearning.AI & Stanford (2023-2024) - 5 courses

- [Neural Networks & Deep Learning](#)
- [Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization](#)
- [Structuring Machine Learning Projects](#)
- [Convolutional Neural Networks](#)
- [Sequence Models](#)

## AWS Cloud Solutions Architect Professional Certificate- ongoing

- [AWS Cloud Solutions Architect Professional Certificate](#)

## FEATURED PROJECTS

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- **The Official MSHS Website** - <https://www.officialmingsci.com/>
- **A.R.T.I.S.T (Artificial Real-Time Image Style Transformer) AI** - <https://github.com/gael55x/ARTIST>
- **MusicAI** - <https://github.com/gael55x/MusicAI>
- **PhEASYCS AI model** - <https://github.com/gael55x/Physics-QandA-AI-System>
- **Car-Detection-AI-Model** - <https://github.com/gael55x/Car-Detection-AI-model->
- **Daddy Mikes Kitchenette** - <https://daddy-mike-s-kitchenette.vercel.app/>
- **Algo-AI model** - <https://github.com/gael55x/Algo-AI>
- **MessageMe** - <https://github.com/gael55x/MessageMe>
- **Gaille's Blog Post** - <https://gael55x-blog.vercel.app/>
- **Gaille's Portfolio** - <https://gailleamolong.vercel.app/>

## AWARDS & HONORS

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- Top 1% Developer in Global Ranking from CodersRank (2023-ongoing) - <https://profile.codersrank.io/user/gael55x>
- Youngest Software Engineer in Bitwork Solutions (Age: 17)
- Youngest AI Engineer in Bitwork Solutions (Age: 17)
- Top 1% FastAPI Developer in the Philippines - <https://profile.codersrank.io/user/gael55x>
- Top 2% React, Flask, SQLAlchemy Developer in Global Ranking - <https://profile.codersrank.io/user/gael55x>
- Top 3% Django Developer in Global Ranking - <https://profile.codersrank.io/user/gael55x>
- Top 0.7% NextJS Developer in Global Ranking - <https://profile.codersrank.io/user/gael55x>
- Top 5% Django, C, Numpy, ReactJS, SQLAlchemy, TensorFlow and Flask Developer in the Philippines - <https://profile.codersrank.io/user/gael55x>
- 4th Place in the Division of Science and Technology Fair Contest for PhEASYCS AI Model (High School)
- Excellency in Research and Innovation

## SKILLS & INTEREST

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- **Programming Languages:** Python, JavaScript, HTML, CSS, JSON, TypeScript, C, C++, Jupyter Notebook, SQL (PostgreSQL and SQLite), NoSQL (MongoDB)
- **Technologies & Libraries:** ReactJS, NextJS, SQLAlchemy, Django, FastAPI, Flask, Pandas, TensorFlow, NodeJS, NumPy, Pygame, Scikit-Learn, Pytest, PyTorch, Matplotlib, ExpressJS, Pyscopg, Django REST framework, Keras, node-mongodb-native, Webpack, HTML, CSS
- **Tools & Platforms:** Git, Docker, Railway, NGINX, GitHub, VS Code, AWS Cloud Development Operations
- **Hobbies:** Investing, Algorithmic Trading, Trading, Physics, Mathematics, Travelling, Hacking, Coding
- **Soft Skills:** Strong problem-solving skills, excellent communication skills, ability to analyze complex problems and develop effective solutions, ability to communicate technical information to non-technical stakeholders, collaborate effectively with cross-functional teams