

Billy Lu

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🌐 <https://github.com/abillylu> 📍 Metro Cebu, Philippines

EDUCATION

UNIVERSITY OF SAN CARLOS GRADUATE

BS IN COMPUTER SCIENCE

August 2019 - May 2023 | Diploma [🔗](#)

EXPERIENCE

FREELANCE

SOFTWARE DEVELOPER

June 2023 - Present

SYMPH

WEB AND MOBILE APP DEVELOPER

INTERN

March 2023 - May 2023 | Certificate [🔗](#)

TECHNOLOGY STACK

PROGRAMMING LANGUAGES

• C • C++ • C# • PHP • Java • JavaScript
• TypeScript • Python • R

WEB TECHNOLOGIES

• HTML • CSS • Bootstrap • Laravel
• Livewire • React • Vue • Flask
• Tailwind CSS • Material UI • Node
• Express • Next • Prisma • Drizzle

DATABASE MANAGEMENT SYSTEMS

• MySQL • PostgreSQL • SQLite
• MongoDB

API TESTING

• Postman • Insomnia

VERSION CONTROL

• Git

MOBILE DEVELOPMENT

• Xamarin.Forms

MACHINE LEARNING

• Pandas • Numpy • FastText
• TensorFlow • Keras • Gensim

PLATFORMS

• GitHub • Figma • Firebase
• ServiceNow • Overleaf (L^AT_EX) • Notion

TECHNICAL SKILLS

• Problem Solving • Functional and Procedural program design
• Object-Oriented Programming • Agile (Scrum) Software Development • Full Stack Development • Algorithm design
• Algorithm Visualization & Simulation
• Time & Space Complexity Analysis
• Natural Language Processing
• Computer Vision • Text & Image Classification • Data Collection & Preprocessing • Data Visualization & Analysis

COURSEWORK

TIMBERTRACK INVENTORY MANAGEMENT SYSTEM

November - December 2020 | May 2021 | November - December 2021 |

Technologies: Laravel, Livewire, MySQL | [🔗 GitHub](#)

- Developed *Sales Dashboard*, and *CRUD & Sub-categorization* for products

CHESS APPLICATION JAVA APPLICATION

May 2021 | Technologies: Java | [🔗 GitHub](#)

- Developed all chess logic

CPU SCHEDULING VISUALIZER CONSOLE APPLICATION

January 2022 | Technologies: C | [🔗 GitHub](#)

- Visualizes & simulates CPU scheduling algorithms through a *Gantt chart*

CALCULATOR MOBILE APPLICATION

March 2022 | Technologies: Xamarin.Forms | [🔗 GitHub](#)

- Developed simple arithmetic operations

CHAT APP MOBILE APPLICATION

April - May 2022 | Technologies: Xamarin.Forms, Firebase | [🔗 GitHub](#)

- Developed *Splash Screen*, *Conversation page*, and *Authentication & User Account Management & Message Storage* through Firebase integration

IMAGE PROCESSING FROM SCRATCH JAVA PROJECT COMPILATION

September 2022 | Technologies: Java | [🔗 GitHub](#)

- Developed *Image Recolor*, *Image Resize*, *Image Rotate*, *Shape Recognition*, and *Letter Classification*

LU FACTORIZATION CALCULATOR WEB APPLICATION

May 2023 | Technologies: C, JS, Bootstrap, Vercel | [🔗 Website](#)

- Solves the *L* and *U* Matrices of a given Matrix
- Developed an optimized solution in C, then converted to JS

PROJECTS

QUICKGRADE by SympH WEB APPLICATION

April - May 2023 | Technologies: Python, Amazon Textract, GPT-3.5 Turbo, Flask, FlutterFlow | [🔗 Website](#)

- Web Application Tool designed to help teachers properly check different types of exams with the help of Image Processing (OCR) and AI (LLMs)
- Developed a solution to properly check multiple choice exams

PAMST - PROJECT ACCOUNT MANAGEMENT SIMULATION TOOL WEB APPLICATION

October 2023 - June 2024 | Technologies: Laravel, Livewire, Laravel Excel, MySQL, Bootstrap, DigitalOcean | [🔗 Website](#)

- Web Application Tool designed to help Project Managers simulate different decisions during a project, given a project timeline and its resources
- Developed *Document Versioning*, *Task Hierarchy*, *Daily Emails*, *CRUD for Tasks*, *Resources & Financials*, and *Batch Processing*

MTIC-SSA - MEDICAL TECHNOLOGIST INTERNS OF CEBU -

SCHEDULE SUMMARY APPLICATION SINGLE PAGE APPLICATION

October 2024 | Technologies: React, Tailwind CSS, Netlify | [🔗 Website](#)

- Solution designed for medical interns to easily check their shifting schedules
- Provides interns insights, such as: Immediately knowing their shifts, knowing who their shiftmates are, viewing a summary of all shifts, and checking future or previous shift summaries

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INTERESTS

- Full Stack Development • Data Science
- Machine Learning • Artificial Intelligence

REFERENCES

CHRISTIAN MADERAZO, M.ENG.

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IT OPERATIONS SPECIALIST



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PROJECTS

THOR CUSTOMS BROKERAGE - DMS FULL STACK APPLICATION (DESKTOP)

January - May 2025 | Technologies: Python, TypeScript, Electron, React, Material UI, Express, PostgreSQL, Prisma, Supabase, Vercel |  [GitHub](#) 

- Document Management System that helped the business instantly organize and create statement of accounts and billing statements
- Processed the company's document backlogs and organized these documents into one folder structure
- Includes features such as user authentication and authorization, document pdf generation, affixing e-signatures, CRUD for storing container van numbers, customers, statement of accounts, billing statements

AGRESOURCE INC. - IMS FULL STACK APPLICATION

June 2025 - Present | Technologies: Next, React, TypeScript, Tailwind CSS, Better Auth, PostgreSQL, Drizzle

- Digital Transformation Solution for local probions company Agresource Inc.
- Currently a work in progress

PUBLICATIONS

TEXT CLASSIFICATION OF CLIMATE CHANGE TWEETS USING ARTIFICIAL NEURAL NETWORKS, FASTTEXT WORD EMBEDDINGS, AND LATENT DIRICHLET ALLOCATION

COMPUTER SCIENCE THESIS MANUSCRIPT |  IEEE XPLORE

Technologies: Python, Pandas, Numpy, FastText, TensorFlow, Keras, Gensim

- Presented: June 9, 2023 at **Advances in Power, Signal, and Information Technology (APSIT 2023)** | Certificate
- Published: August 9, 2023 on **IEEE Xplore**