

AL-KHADEEM H. ABUBAKAR

(+63) 927 474 4426 | alkhadeemabubakar@gmail.com | [linkedin.com/in/al-khadeem-abubakar](https://www.linkedin.com/in/al-khadeem-abubakar) | github.com/khnnny

EDUCATION

Ateneo de Zamboanga University

Bachelor of Science in Computer Engineering

Practicum: Active Learners Program (ALP)

Zamboanga City, Philippines

May 2025

May 2024 - April 2025

Thesis initiative with hands-on experience in system testing, troubleshooting, and documentation across university infrastructure.

Relevant Coursework: Software Design, Object-Oriented Programming, Data Structures & Algorithms, Data Analytics, Database Management, Operating Systems, Embedded Systems, Computer Network & Security, Cybersecurity

TECHNICAL SKILLS

Programming Languages: Python, Java, PHP, C/C++ (Arduino), MySQL, PostgreSQL, MATLAB, HTML/CSS, x86 Assembly

Frameworks & Technologies: Snowflake, dbt, Airflow, Spring Boot, FastAPI, AWS, Azure, MongoDB, DBMS, REST API

Developer Tools: Visual Studio Code, PyCharm, IntelliJ, NetBeans, Android Studio, n8n, Docker, Postman, Git, Perplexity

EXPERIENCE

Center for Information Technology Services (CITS), Ateneo de Zamboanga University

Computer Engineer Intern (Practicum)

Zamboanga City, Philippines

May 2024 - April 2025

- Participated in **Agile** sprints and feature development using **TDD**, incorporating feedback from senior developers.
- Collaborated on system testing, troubleshooting, and documentation, providing root cause analysis reports.
- Debugged and maintained live systems in **PHP**, **Java**, and **C++** codebases.
- Performed manual and automated **API** testing using **Postman** and **Java**.
- Resolved network issues (IP conflicts, segmentation, port/configuration), using **Wireshark** and diagnostic tools.

Lenin Computer Systems, Inc.

Computer Programmer Intern

Zamboanga City, Philippines

June 2024 - August 2024

- Developed an automated job order management system, streamlining manual creation and tracking.
- Assembled, configured, and deployed **40+** personal computers for clients with operating system installation.
- Provided technical support to customers, facilitated sales transactions, and audited daily sales and inventory records.

PROJECTS

Arduino-based Attendance and Room Monitoring System (Capstone Project) | Team Lead | tinyurl.com/ARMS-Doc

- Led development of RFID-based embedded hardware and server-side application to automate classroom electricity control and streamline instructor attendance, with remote control access through web application.
- Architected and rebuilt server-side application using **Java** and **Spring Boot**, implementing secure **TCP/IP** protocols.
- Implemented **RFID authentication**, real-time audit logging, and persistent **SQL** storage with **100% traceability**.
- Designed custom **Arduino-based RFID readers** with network integration and real-time audio/visual feedback.
- Secured **RESTful APIs** for remote electrical control, achieving **100% switching success** in trials.
- Developed state-based dual-authentication scanning algorithm, resulting in **100%** test accuracy for secure, intentional classroom electricity control, supporting scalable deployment to **30+** classrooms.

Job Order Management System (Internship Project) | Team Lead

- Developed and designed a web application for automated job order creation, tracking, and management using **Java** and **Spring Boot**, integrating **MongoDB** for data storage; deployed and pilot tested on **Render** cloud platform.
- Implemented secure user authentication and password encryption with **Bcrypt**.
- Automated email notifications for job order deployment and status updates via **SMTP**.
- Built a responsive user interface with **Bootstrap**, optimized for both desktop and mobile devices.

End-to-End ELT Data Pipeline with Snowflake, dbt & Airflow

- Engineered an **ELT pipeline** extracting data into **Snowflake**, utilizing **dbt macros** for modular **SQL** transformations.
- Automated workflow schedules using **Apache Airflow** with Astronomer Cosmos
- Utilized a **Star Schema** Architecture (Fact/Dimension) tables with surrogate keys for optimized dimensional modeling
- Implemented data quality assurance using **dbt tests** to validate uniqueness, referential integrity, and value constraints.

AI Job Application Screening & Rating System

- Developed an AI job application tracking and evaluation system using **n8n**, analyzing resumes and cover letters.
- Processed DOCX, PDF, and image inputs using **core/code nodes** and **Mistral API** for **OCR** and text extraction.
- Automated data extraction, compiled applicant data, and fetched job descriptions from **Google Docs**.
- Integrated **AI agent** assessment for applicants suitability based on job description, logging results to **Google Sheets**.

QUALIFICATIONS AND CERTIFICATES

n8n Course Level 1 & 2 (Oct 2025) | MOOC Java Programming I & II (Jan 2025) | Scientific Computing with Python (Jan 2025)