

AL-KHADEEM H. ABUBAKAR

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EDUCATION

Ateneo de Zamboanga University <i>Bachelor of Science in Computer Engineering</i>	Zamboanga City, Philippines May 2025
Practicum: Active Learners Program (ALP)	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	Zamboanga City, Philippines
<i>Computer Engineer Intern (Practicum)</i>	May 2024 - April 2025
<ul style="list-style-type: none">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.	Zamboanga City, Philippines

<i>Computer Programmer Intern</i>	June 2024 - August 2024
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">Engineered an ELT pipeline extracting data into Snowflake, utilizing dbt macros for modular SQL transformations.Automated workflow schedules using Apache Airflow with Astronomer CosmosUtilized a Star Schema Architecture (Fact/Dimension) tables with surrogate keys for optimized dimensional modelingImplemented data quality assurance using dbt tests to validate uniqueness, referential integrity, and value constraints.	
AI Job Application Screening & Rating System	
<ul style="list-style-type: none">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)