AHMAD ARIEF BIN OMAR

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SUMMARY

Bachelor of Computer Science graduate with a CGPA of 3.76 and demonstrated expertise across full-stack development, game architecture, automation, and AI/ML integration. Experienced in designing scalable solutions using modern technologies including React, Java, Go, Python, and cloud containerization. Proven ability to architect complex systems from game server infrastructure to intelligent automation bots, implement secure data handling and encryption protocols, and deliver production-ready applications that improve operational efficiency and user experience.

WORK EXPERIENCE

P2P ASSOCIATE ANALYST   SEP 2025 – CURRENT
AstraZeneca Asia-Pacific Business Services Sdn. Bhd.   Mutiara Damansara, Kuala Lumpur

- **SAP to Coupa Migration:** Developed a Python automation solution to extract SAP data and format it for Coupa Purchase Order uploads. Processed up to 200,000 PO items, reducing manual entry time of 2 minutes per item to 2 minutes per 100,000 items and saving thousands of hours of manual labour.
- **Balance Sheet Reconciliation (BSR):** Automated the end-to-end extraction of Accounts Payable (AP) and Travel & Expenses (T&E) data from SAP. Engineered Python scripts to automate complex Excel functions (VLOOKUP, Pivot Tables) and reconcile data directly into standardized templates.
- **Digitalization Platform Development:** Designed and built a centralized Power Apps hub for the Kuala Lumpur P2P team to submit, monitor, and manage global digitalization initiatives.
- **Global Digitalization Leadership:** Spearheaded automation projects across regional teams. Streamlined SAP data extraction, email verifications, and workflows using Python, SharePoint, and Power Automate, significantly reducing manual handling.
- **System Administration & Reporting:** Built real-time Power BI dashboards for proactive monitoring. Investigated and resolved data inconsistencies across regional SAP markets, producing clear technical documentation to ensure system maintainability.

INTERNSHIP & ASSOCIATE ANALYST (1-Year Contract)   MAR 2024 – AUG 2025
AstraZeneca Asia-Pacific Business Services Sdn. Bhd.   Mutiara Damansara, Kuala Lumpur

- **Cashflow Forecast M+6 Dashboard:** Served as the primary developer for a dynamic Power BI dashboard managing cashflow forecasting across 8 APAC markets. Leveraged Python to automate SAP data collection and integrate six-month forward (M+6) projections.
- **Real-time Analytics & Anomaly Detection:** Designed mechanisms to flag financial anomalies and visualize trends. Significantly increased forecasting accuracy and eliminated thousands of hours of manual work.
- **FSC018 Reporting Automation:** Developed a complete Python automation solution utilizing web drivers to export reports from SAP systems and web platforms. Engineered standardized Excel data transformation processes.
- **Data Visualization & Workflow Optimization:** Built interactive dashboards for financial and operational datasets to improve data-driven decisions. Optimized workflows via SharePoint and Power Automate to reduce manual handling.
- **Company Upskilling & Troubleshooting:** Authored internal guides to help colleagues adopt digital tools and resolved system anomalies across 8 regional SAP markets. Implemented detailed debugging logs and instruction manuals for future maintenance.

EDUCATION

MANAGEMENT & SCIENCE UNIVERSITY   SEP 2021 – SEP 2024
Bachelor's in Computer Science (Hons)   Shah Alam, Selangor
Major : Software Engineering
CGPA : 3.76
Achievements : 3 Dean's List, 1 Conditional Dean's List

Relevant Coursework: Object-Oriented Programming, Web & Mobile Programming, System Analysis & Design, Software Architecture & Testing, Database Systems (MySQL), Server Computing, Computer Architecture, Operating Systems, Software Project Management

SKILLS

Programming: Python, Java, C++, Go/Golang, JavaScript, Objective-C, SQL
Web & Mobile Development: HTML, CSS, PHP, JavaScript, React, Vite, React Router, Node.js, Framer Motion, Progressive Web Apps (PWA), Flutter
Business Intelligence & Automation: Power BI, Power Automate, PowerApps, Excel, Word, PowerPoint
Frameworks, Tools & DevOps: Laravel, Git, Docker, Docker Compose, Maven, CMake, WSL, ESLint, Command-Line Utilities, GitHub Actions
Automation & Web Scraping: Selenium, Puppeteer, Web Scraping, Discord Bot Development (discord.py), Browser Automation
AI & Machine Learning: Streamlit, Generative AI (Ollama, Goose, OpenClaw, Open WebUI), JamAI, Machine Learning (Random Forest)
Database Management: MySQL, Redis, phpMyAdmin
Game Development & Modding: Game Server Emulation, Save File Editing, Binary Parsing, Reverse Engineering
ERP & Enterprise Systems: SAP (Data extraction and automation)
Languages: English (MUET Band 5), Malay
Soft Skills: Analytical Thinking, Critical Thinking, Communication, Problem Solving, Attention to Detail, Team Collaboration

PROJECT EXPERIENCE

FYP - Class Streaming Selection System Based on Students' Performance 2.0 | *Academic Project*
- Independently developed a user-friendly website, using HTML, CSS, PHP, JavaScript, and SQL.
- Utilizing machine learning, to create random forest diagram and points out the best class stream.

Secure Vault Android Application | *Personal Project*
- Developing a privacy-focused, vault-style Android application disguised with a fully functional calculator front-end.
- Implementing secure media handling and encrypted storage protocols to protect sensitive user files.
- Engineering a covert password bypass and authentication system to manage hidden access tiers.

Local Generative AI & System Administration | *Personal Project*
- Deploying and managing local Large Language Models (LLMs) and AI agents utilizing Ollama and Goose.
- Configuring containerized development environments and virtualized workflows using Docker and Windows Subsystem for Linux (WSL).
- Executing advanced system administration, network configuration, and permission troubleshooting via command-line utilities (icacls, sfc, netsh).
- Developing custom Python automation tools, image processing scripts, and ChatGPT chatbot integrations.

Game Server Emulator & Architecture | *Personal Project*
- Architected and deployed a full-featured multiplayer game server using Java with Maven and Java 21.
- Containerized the application with Docker and Docker Compose for seamless deployment and scalability.
- Implemented complex networking protocols, persistent database management, and in-game mechanics through reverse engineering and protocol analysis.

Game Save File Editor & Binary Parser | *Personal Project*
- Developed a cross-platform GUI application in Go using the Fyne framework for editing encrypted game save files.
- Implemented binary file parsing, encryption/decryption algorithms, and complex data serialization for proprietary file formats.
- Integrated JSON serialization for readable data export and version control integration.

REFERENCES

Rosidah binti Rosdi – MSU, Shah Alam
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Ahmad Hafizuddin Ahmad Jaafar – AstraZeneca, Mutiara Damansara
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