Azmi Adan

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Objective

To build and apply my skills in software development, cloud computing, and cybersecurity while contributing to real-world technical projects. I am looking for opportunities where I can solve practical problems, work with experienced teams, and continue developing through hands-on experience.

Professional Summary

Software Developer | Cloud Engineer | Cybersecurity Enthusiast

Software developer with experience building full-stack applications, backend systems, and developer tools. I work mainly with Python, Flask, React, JavaScript, and cloud technologies, and have built projects involving data analytics, APIs, cybersecurity, and automated testing. I enjoy building things from scratch, solving technical problems, and learning new technologies through hands-on projects.

Technical Skills

- **Languages:** JavaScript, Python, HTML5, CSS3 , Dart, C ,C++ •

Frameworks & Libraries: React.js, Flask, Tailwind CSS · **Tools & Platforms:** Git, GitHub, MySQL, Postman, GitHub API, Flask-Mail, Flutter

- **Cloud & Infrastructure** AWS (Basics), Angani Cloud, pfSense, CloudStack, VMware, SPO (SharePoint Online), Load Balancers, DNS Configurations, Linux VM Provisioning
- **Cybersecurity:** Cryptography, Secure Application Development, Linux Hardening

Selected Projects

1. BranchIQ — Python Test Generation VS Code Extension

Developed and published a VS Code extension that uses **deterministic, AST-based static analysis** to analyze Python source code and automatically generate **pytest test suites**. BranchIQ identifies functions, parameters, branches, loops, and exception paths to create structured baseline and branch-focused tests, giving developers a fast starting point for improving test coverage.

Key Features:

- Automatic Python source-code analysis using the AST
- Generates pytest test suites from detected functions
- Identifies and targets conditional branches and exception paths
- Infers plausible test inputs from parameters, defaults, and conditions
- Generates baseline/smoke tests for discovered functions
- Produces branch-specific tests for conditions and error handling
- Generates portable test files ready to run with pytest
- Available as a publicly published VS Code Marketplace extension

Tech Stack: Python, TypeScript, VS Code Extension API, AST, pytest,

Node.js, esbuild

2.SmartStats AI

Developed a full-stack AI-powered data visualization platform using **Python Flask** for the backend and React for the frontend. Implemented user authentication, CSV data validation, AIassisted statistical analysis, chart recommendations, and dashboard management. Enabled users to upload datasets, generate insights, visualize trends, and export results in multiple formats.

Key Features:

- Secure login with 24-hour session handling
- CSV upload and validation (up to 5MB)
- Automated statistical analysis (mean, median, min, max, standard deviation)
- Multiple chart types (Bar, Line, Pie, Scatter, Table)
- Dashboard creation and chart exports (PNG, CSV, JSON, TXT)

Tech Stack: Python (Flask), React, JavaScript, REST APIs, Chart.js, HTML5, CSS3

3.Crypto Chain

An educational simulation of a blockchain system demonstrating core features like transaction validation, digital signatures, and mining processes. Ideal for learning cryptographic principles and how distributed ledgers function in real-world applications. **Tech Stack:** Python (Flask), JavaScript, Cryptography

4.Chronos – Premium Age Calculator

Chronos is a premium age calculator that helps you determine your exact age in years, months, and days. It also provides additional information like your next birthday, birth day of the week, and total days lived.

Features

- Precise age calculation
- Beautiful, responsive design
- Multiple theme options
- Customizable settings
- Birthday celebration
- Share your results

Built with HTML5, CSS3, and vanilla JavaScript. No frameworks or libraries required.

5.Automated Email Sender

A simple web-based tool that allows users to send structured and formatted emails using a browser-based form. Includes basic validation and feedback messages.
Tech Stack: Flask, Flask-Mail, HTML/CSS

6.GitHub Scraper

A browser-based tool for fetching GitHub user data including repositories, descriptions, and language breakdown using the GitHub REST API. Built to demonstrate working with external APIs and dynamic rendering of JSON data. **Tech**

Stack: Python, Flask, GitHub API

Professional Experience

AI Forensic Advisory Virtual Intern (Star Performer)

Excelerate | June 2025 | Remote

- Completed the **AI Forensic Advisory Virtual Internship**, gaining hands-on experience in **AI-driven forensic analysis, digital investigations, and problem-solving**.
- Worked on practical case scenarios applying **Python, data analysis, and critical thinking** to forensic challenges.
- Awarded a **Certificate of Appreciation as the Star Performer**, recognizing outstanding performance and being the top participant in the cohort.

Cloud Support Engineer Intern

Angani — *Feb 2025 – Apr 2025*

- Provisioned virtual machines and configured network services using **VMware**, **CloudStack**, and **pfSense** firewalls.
- Monitored and optimized customer workloads in the **Angani Cloud platform**, ensuring system uptime and responsiveness.
- Set up **load balancers**, **DNS configurations**, and basic containerization workflows using **Docker**.
- Assisted in the deployment of web applications on cloud instances and configured secure SSH access with Linux hardening best practices.

- Used internal ticketing systems to resolve client issues ranging from domain routing to VM resource allocation. • Participated in knowledge base documentation and client onboarding sessions to streamline support processes.

Application Development Intern

Smart Automation & Workflow AI Internship (Saint Louis University & Excelerate) — Mar 2026

- Recognized as Star Performer for outstanding achievement in the Smart Automation & Workflow AI Internship.
- Built smart automation solutions and AI-driven workflows as part of the internship program.
- Earned a Certificate of Achievement, supported by Saint Louis University and powered by Excelerate.

Mobile App Development Intern (Star Performer)
Flutter Virtual Internship Nov 2025

- Completed an intensive virtual internship focused on crossplatform mobile application development using **Flutter** and **Dart**
- Built and customized mobile UI components using Flutter widgets and responsive layouts
- Implemented application logic, navigation, and state management using Dart
- Recognized as a **Star Performer** for exceptional performance and timely project delivery

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Education

KCA University

Bachelor of Science in Information Security and Forensics
May 2025 – Expected Dec 2027
Coursework includes ethical hacking, digital forensics, cyber law, secure software development, and information assurance.

Moringa School

Software Engineering Bootcamp
Jul 2024 – Nov 2024
Immersive program focused on full-stack web development. Emphasized JavaScript, React.js, Flask, REST APIs, and agile methodologies. Delivered multiple collaborative and individual projects in a fast-paced environment.

Licenses & Certifications

- **Software Engineering Certificate** — Moringa School *(Nov 2024)*
- **AI Forensic Advisory Virtual Internship (Star Performer)** — Excelerate *(Jun 2025)*
- **Mobile App Development Virtual Internship (Star Performer)** — Flutter *(Nov 2025)*
- **Cybersecurity Fundamentals** — IBM SkillsBuild
- **Cybersecurity & Emerging Technologies** — ICT Authority *(May 2024)*
- **3CX Basic Certification** — 3CX *(Feb 2025)*
- **CodeMaster Solo Showdown Challenge** — Rochester Institute of Technology (RIT Dubai) *(Jan / Apr 2025)*

- **Basics of Python** — UniAthena *(Oct 2024)*
- **Leading Yourself** — LinkedIn Learning *(Sep 2024)*

Additional Highlights

- Committed to delivering clean, secure, and intuitive UI/UX designs.
- Experienced in collaborative projects using Git and agile workflows.
- Fast learner who embraces challenges and adapts to new tools and stacks.

Referees

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