LEEN AL HARASH | PROJECTS

KAYPIC WEBSITE – ASP.NET, C#, JAVASCRIPT, RAZOR, SIGNALR, ASP.NET CORE IDENTITY, SWAGGER
- A web platform for sports and community organizations using ASP.NET Core
- Implements secure authentication and role-based access control with ASP.NET Core Identity
- Implements real-time interactions using SignalR
- Ability to share files and call in real time
- Builds REST APIs and documents them using Swagger

WEATHER STATION – RASPBERRY PI, PYTHON
- Displays real-time temperature on an LCD screen with scrolling text
- Changed RGB LED colors based on weather conditions (blue: rain, green: moderate temperature, red: >25 °C)
- Triggered an active buzzer alert upon rain detection
- Stored sensor data locally in a text file and a database
- Visualized weather data using ThingSpeak IoT platform

HOTELRES APPLICATION – KOTLIN, JSON, HTTP/REST API, ANDROID SDK
- An Android application for managing and viewing hotel reservations
- Follows the MVP (Model–View–Presenter) architectural pattern
- Integrates a REST API for real-time data retrieval
- Implements loading states and error handling

SMART FLAME ALERT SYSTEM – RASPBERRY PI, PYTHON
- Integrates a flame sensor for fire hazard monitoring
- Provides visual alerts using dual red/green LEDs based on detection status
- Triggers an active buzzer and displays warning messages on an LCD screen
- Logs flame detection events with date and time
- Automatically sends email alerts upon flame detection using Simple Mail Transfer Protocol

SHATTER CLICK – PYTHON
- An interactive Pygame application featuring a bouncing "CLICK ME!" text
- Triggers visual effects upon user interaction such as colorful shatter animations
- Implements glass-breaking sound effects when screen is clicked

SNAKE – HTML/CSS, JS
- Implements canvas-based rendering for dynamic game visuals
- Designs a continuous game loop and basic game state handling

AFTERGLAM – PYTHON, SWAGGER, SQL
- A secure REST API using FastAPI with a three-layer architecture (routers, services, data access)
- Implements JWT-based authentication with role-based access control for administrators
- Protects sensitive endpoints to prevent unauthorized access and data modification
- Designs and builds API endpoints for managing administrators, clients, forms, houses, and cosmetic products
- Documents the API with Swagger/OpenAPI

PERSONAL PORTFOLIO – HTML, CSS, JAVASCRIPT
- Implements a fully responsive layout with smooth, custom animations
- Serves as a central hub for projects and career highlights
- Improves UI/UX through refined layouts and purpose-built animations
- Contact form to allows users to send emails directly from the website

MUSIC LIBRARY – KOLTIN "ANDROID"
- An Android music application supporting English and French
- Ability to switch between dark and light mode
- Provides search functionality and filtering by artist or genre
- Follows MVVM architecture using Room, LiveData, RecyclerView, and SharedPreferences

TIC TAC TOE – KOLTIN "ANDROID"
- Implements a smart AI opponent capable of blocking player moves
- Provides multilingual support in English, French, and Spanish using internationalization

GREEN PULSE WEBSITE – HTML/CSS, BOOTSTRAP, ANGULAR, REST APIs, SPRING BOOT, TYPESCRIPT, EMAIL API, JAVA
- Implements responsive frontend using Angular, HTML, CSS, and Bootstrap with light/dark mode toggle
- Provides dynamic search, filtering, and product listing functionality
- Builds REST APIs with Spring Boot to manage inventory
- Integrates an email API for direct producer-buyer communication

CALCULATOR - JAVA
- Basic calculator application supporting addition, subtraction, multiplication and division

COWBOY HERO 2D – UNITY, C#
- Designs cityscape levels filled with enemies like twirlers and scorpions
- Implements combat mechanics, enemy behavior, and level progression

COWBOY HERO 3D – UNITY, C#
- Guides Hero through traps, enemies, and hidden dangers while continuing the quest
- Designs exploration-focused levels with combat mechanics and environmental challenges
- Implements Unity 3D features, including physics, camera control, and 3D assets

COMPLETE COWBOY HERO – UNITY, C#
- Unity game combining 2D and 3D gameplay experiences
- Prompts players to enter their name and choose between 2D or 3D environments
- Integrates multiple game scenes and maintains a consistent storyline across modes

MASTER MIND – JAVA
- A logic-based color guessing game where the player selects 5 colors to match a randomly generated sequence
- Allows the player 12 attempts to guess the correct order
- Provides feedback after each attempt: **N** for correct color in correct position, **B** for correct color in wrong position
- Implements game logic, input handling, and feedback mechanisms

TECHNICAL SKILLS

o Languages: HTML5, CSS3, JavaScript, Kotlin, Python, PHP, Type Script, Java (SE, EE, Java FX), C#
o Tools / Platforms: Git, Docker, Unity, Linux
o Database / API: SQL, MySQL, SQLite3, Swagger
o Frameworks: Angular, ASP.NET, Spring Boot
o Others: IoT, Object-Oriented Programming (OOP)

NON-TECHNICAL WORK EXPERIENCE

JUNE 2025 – PRESENT: Steve Madden – Sales

JUNE 2024 – APR 2025: Aldo – Sales

JUNE 2023 – SEP 2023: Pharma Prix – Cashier

JUNE 2022 – SEP 2022: Laronde – Customer Service

JUNE 2021 – SEP 2021: Summer Camp – Counselor