

# Kareem A

248-996-0124 | [kareem.alaiwat@gmail.com](mailto:kareem.alaiwat@gmail.com) | [linkedin.com/in/kareem-alaiwat](https://www.linkedin.com/in/kareem-alaiwat) | [github.com/kalaiwat](https://github.com/kalaiwat)

## PROJECTS

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### Derm AI | Expo, React Native, NodeJS, Firebase

June 2025 – Present

- Founder and lead developer of Derm AI, an app for AI-powered skin analysis and product recommendations.
- Built a dynamic React Native questionnaire to gather user skin data, preferences, and concerns across inputs.
- Developed a secure Firebase backend to store scans, ingredients, and product safety data in real time.
- Integrated OpenAI and Cloud Vision APIs to analyze skin and suggest products based on user profiles.
- Maintained a modular GitHub codebase built for collaboration, CI/CD workflows, and version control.

### SpareLot | HTML, CSS, ReactJS, NodeJS, Firebase

June 2024 – June 2025

- Founder and lead developer of SpareLot, a fullstack platform for users to rent out underutilized storage spaces.
- Implemented Firebase Auth, Firestore, and Cloud Functions to handle secure user data, listings, and transactions.
- Built a responsive and interactive UI using ReactJS, HTML, and CSS, optimizing for usability across platforms.
- Maintained a modular GitHub codebase built for collaboration, CI/CD workflows, and version control.

### The NextGen Innovators Website | HTML, CSS, ReactJS, NodeJS

May 2025

- Developed the official website for thenextgeninnovators.org as a verified community service project.
- Used ReactJS and NodeJS to build a fast, responsive static site showcasing courses, mission, and team members.
- Designed and implemented a custom contact form for schools and organizations to initiate partnerships.
- Ensured mobile-friendly UI and clean layout to clearly present educational offerings and community goals.

### Personal Website | HTML, CSS, JavaScript

March 2024

- Designed and deployed a personal portfolio website to showcase technical skills and development projects.
- Built individual sections to highlight technical skills, development projects and contact information.
- Featured projects with concise summaries, tech stacks, and GitHub links to demonstrate hands-on experience.
- Integrated GitHub Pages for automated deployment, ensuring ongoing version control and easy updates.

### IOCTL Driver | C++, Windows Driver Kit

March 2024

- Developed a Windows driver using IOCTL to enable communication between hardware and user applications.
- Implemented custom IOCTL codes to handle data exchange between user-mode and kernel-mode processes.
- Engineered modular components for scalability and easy addition of future command interfaces.
- Explored low-level OS internals and reverse engineering techniques through direct interaction with kernel functionality.

### SC.NET | C#, HTML Agility Pack

May 2023

- Built an open-source C# utility to scrape detailed swim meet results and athlete profiles from SwimCloud.com.
- Circumvented lack of a public API by leveraging HTML Agility Pack to parse dynamic web content efficiently.
- Packaged the tool as a reusable library to simplify access to swim data for developers and team analysts.
- Enabled data-driven insights and community collaboration through standardized, automated data extraction.

## TECHNICAL SKILLS

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**Languages:** C++, C#, Java, Python, HTML, CSS, JavaScript

**Mobile:** React Native, Expo

**Web & Backend:** ReactJS, NodeJS, Firebase (Auth, Firestore, Functions)

**Developer Tools:** Git, GitHub, VS Code, Visual Studio, PyCharm, IntelliJ

## CERTIFICATIONS

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**Information Technology Specialist in Java:** Certiport / Pearson VUE

**Information Technology Specialist in Python:** Certiport / Pearson VUE