Kornkarnjana Sapianchai (Golf)

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Aspiring software developer proficient in JavaScript, HTML/CSS, Python, and C/C++. Passionate about problem-solving, building efficient solutions, and continuously learning new technologies.

EDUCATION

Texas A&M University **December, 2020**
Bachelor of Science, Computer Engineering College Station, TX

- **GPA: 3.73/4.0;** Magna Cum Laude; SEC Academic Honor Roll; First-team Scholar All-American Honors
- Member of the Division I Women's Swimming & Diving Team; 3-time SEC Champions

PROJECTS

Shopping Cart Application **Mar. 2025**
Purpose: Develop an interactive e-commerce shopping experience with a structured product catalog and cart functionality.

- Built a responsive shopping page using React, ensuring seamless navigation between the home and shopping pages.
- Implemented efficient state handling for adding, removing, and updating cart items, improving user experience.
- Integrated React Router for smooth client-side navigation, enhancing page transitions and usability.

My Notes App **Jan. 2025**
Purpose: An application to simplify note-taking for personal use

- Designed and developed a cross-platform note-taking application for iOS, Web, and Android using React Native, TypeScript, and Expo, with defined product requirements, user flows, and wireframes to enhance functionality.
- Implemented user authentication using the OpenID Connect Protocol, enabling secure storage and usage of ID tokens for API authorization, alongside login/logout functionality and automatic redirection for authenticated users.
- Developed RESTful API integrations to support GET, POST, and DELETE operations for seamless synchronization of user profiles and notes.
- Enhanced the user experience with dark/light mode and intuitive page navigation, optimizing usability across various environments and times of day.

Water Flow Sensor **Sept. 2024**
Purpose: A real-time swimmer speed tracking system for data analytics and training optimization

- Collaborated with the head coach to design and build an Arduino-based water flow sensor with CC1101 transceiver to wirelessly transmit speed data from the swimmer to a land-based Arduino with an OLED display.
- Developed real-time speed calculations using pulse detection and time intervals, improving accuracy for training insights.
- Assembled and integrated hardware components, including breadboard wiring, component diagram analysis, and library integration to ensure seamless system functionality.

WORK EXPERIENCE

Swimming Professional Athlete **Dec. 2020 – Dec 2024**

- Developed a robust work ethic, discipline and the resilience to achieve personal and team goals.
- Demonstrated excellent time management skills by balancing intense training schedules with competition commitments and maintaining focus on athletic goals using goal-setting.

Sports Coach & Swim Instructor **Dec. 2021 – Dec 2022**

- Led Year 11 Physical Education lessons, emphasizing teamwork, athletic skills, and fitness across various sports.
- Developed and implemented lesson plans for 7-8 year olds, promoting individual growth and group participation.
- Managed class behavior and created a positive, engaging learning environment to enhance student development.
- Assessed student performance and provided constructive feedback to support skill progression and sportsmanship.

SKILLS

Programming Languages: HTML5/CSS; Javascript; Python; C/C++, MATLAB
Tools and Technologies: React; REST APIs; Git; Postman; NumPy; Pandas; Matplotlib; Scrapy; Microsoft Office Suite; Google Workspace; Trello; Arduino; Verilog; LTSpice; Cadence; LaTeX