Shunsuke Akiya

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Education

California State University, San Bernardino

Bachelor's of Science, Computer Engineering — San Bernardino, CA (Fall 2021 - Spring 2025)

- 3.76 GPA (Magna Cum Laude) | 8x Dean's List

Skills

Technology

- React, Typescript, JavaScript, Next.js, Tailwind CSS, Python, MySQL, MongoDB, Git, Figma

Concepts

- OOP, DSA, Full-Stack Development (Front-End, Back-End, Database)

Languages

- English (Native), Japanese (Business-level)

Work Experience

Front-End Developer

Autumn Valley International, Inc. — La Quinta, CA (December 2024 - Present)

- Produced a user-centric company website, prioritizing engagement and interactive features.
- Embedded EmailJS and i18next, expanding global accessibility through streamlined email and multilingual functionality.
- Incorporated a dynamic globe feature to visually display all exported locations, enhancing website interactivity with React, TypeScript, and Tailwind CSS.

Software Developer Internship

LOGISTEED Solutions America Ltd. — Torrance, CA (June - August 2024)

- Engineered a worklog application, enhancing company-wide productivity and streamlining task management processes.
- Integrated Login Authentication, CRUD functionality, and designed an intuitive UI using Tailwind CSS, elevating overall UX and data security.
- Implemented a Full-Stack system with Svelte for the Front-End, Flask for the Back-End, and MySQL for database management, optimizing application performance and scalability.

Projects

Ponder

A fast, simple and lightweight dictionary app — San Bernardino, CA (February 2025 - Present)

- Crafted a modern, clean, and user-friendly interface, elevating user experience through intuitive design principles.
- Connected Merriam-Webster, GNews APIs and Cheerio to deliver accurate definitions, examples, and efficient web scraping, providing comprehensive content.
- Constructed using Next.js, TypeScript, and Tailwind CSS; future iterations aim for scalability with potential MongoDB integration to enhance data management.

Secure Access Locking System with NFC and Biometrics

Senior Project - Smart-Lock with Fingerprint Sensor, NFC, and Key Access — San Bernardino, CA (Fall 2024 - Present)

- Deployed a user-friendly web app using Next.js, Typescript, and Tailwind CSS that interfaces with a Raspberry Pi to control a smart lock.
- Engineered the authentication system for the lock using MongoDB to manage user credentials, along with secure API communication between a front-end and a back-end for fingerprint and NFC access control.
- Integrated a multi-platform system with a modern web interface using Tailwind CSS, ensuring a seamless and intuitive UX.

Tail Recursion Project

Write 12 recursive functions to manipulate singly-linked lists in Java — San Bernardino, CA (Fall 2023)

- Implemented 12 tail-recursive functions that handle common Java operations.
- Optimized for time complexity (aimed for O(n) or better).
- Followed constraints: no non-local variables, no arrays, no non-recursive loops.

3 Search Algorithm Project

Write 3 search algorithms by utilizing 8 given Java files — San Bernardino, CA (Fall 2023)

- Implemented graph search algorithms (DFS, BFS, A* Search) in Java.
- Utilized object-oriented programming concepts like abstract classes, interfaces, and inheritance.
- Solved pathfinding problems using Maze and Sliding Puzzle as examples.

Summer Camp Mentor

EV3 & NXT Mentor for Robotics Summer Camp — Palm Desert, CA (June - July 2018)

- Instructed elementary school students in programming and robotics fundamentals, promoting technological literacy and problem-solving skills at an entry-level.
- Facilitated engaging and interactive learning experiences, utilizing effective communication to maintain student interest and promote active participation in STEM activities.
- Coordinated and implemented small-scale educational events, enhancing students' understanding of robotics through hands-on demonstrations and collaborative projects.

Notable Courses

CSE 4500 - Platform Computing (Spring 2025)

- Explored mobile, cloud-based, or web-based app design and development. Includes cross and multi-platform issues, virtual reality and social network concepts.

CSE 4310 - Algorithm Analysis (Winter 2023)

- Analyzed algorithms, including time and space complexity, design methodologies, and taxonomic classification of problems.

CSE 2020 - Computer Science II (Fall 2023)

- Studied abstract data structures, including list, stack, queue, tree, and map, and their implementation, storage allocation, and associated applications.