Shunsuke Akiya
Computer Engineering Major (CSUSB)

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Education

California State University, San Bernardino

Bachelor's of Science, Computer Engineering   San Bernardino, CA (Fall 2021 - Spring 2025)
- Senior majoring in Computer Engineering
- 3.76 GPA (As of Spring 2025)

Skills

Programming
- React, Typescript, Next.js, Tailwind CSS, MySQL, Supabase (In progress), Git, JavaScript, HTML, CSS, Python, Java

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 - January 2025)
- Developed a company website with a focus on user experience and interactivity (In progress).
- Integrated EmailJS for seamless email functionality, and i18next for multilingual support, ensuring accessibility across regions.
- Incorporated a dynamic globe feature to visually display all exported locations, enhancing website interactivity with React, TypeScript, and Tailwind.

Software Developer Internship

LOGISTEED Solutions America Ltd. Software Developer Role   Torrance, CA (June 2024 - August 2024)
- Developed a worklog application that is now used by the company.
- Implemented Login Authentication, CRUD functionality, and a user-friendly interface designed with Tailwind.
- Utilized Svelte as Frontend, Flask as Backend, and MySQL for database.

Projects

Ponder

A fast, simple and lightweight dictionary app (In progress).   San Bernardino, CA (February 2025 - Present)
- Focused on a modern, clean, and user-friendly interface for an enhanced experience.
- Integrates Merriam-Webster and GNews APIs for definitions and examples, with plans for web scraping using Cheerio.
- Built with React, TypeScript, and Tailwind; future iterations will adopt Next.js and potentially include Supabase or MongoDB for added functionality.

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)
- Collaboratively developed a Secure Access Lock System that offers multiple authentication methods, including biometrics and NFC.
- Utilized a Raspberry Pi to host a Flask backend server, paired with a React front-end built in TypeScript and styled using Tailwind.
- Ensured multi-platform compatibility with features like remote access via a web app and automatic locking for enhanced security.

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.

Notable Courses

CSE 4500 - Platform Computing

Explored mobile, cloud-based, or web-based app design and development. Includes cross and multi-platform issues, virtual reality and social network concepts.   (Spring 2025)

CSE 4310 - Algorithm Analysis

Analyzed algorithms, including time and space complexity, design methodologies, and taxonomic classification of problems.   (Winter 2023)

CSE 2020 - Computer Science II

Studied abstract data structures, including list, stack, queue, tree, and map, and their implementation, storage allocation, and associated applications.   (Fall 2023)