Naya Singhania

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EDUCATION

San José State University — *San José, CA*   Aug 2023 — May 2027
Bachelor of Science, Computer Science
Certificate, Computational Linguistics
- Cumulative GPA: 3.76/4.0 | President's Scholar (Fall 2024), Dean's Scholar (Fall 2023)
- Relevant Coursework: Advanced Data Structures and Algorithms (Java), Object Oriented Programming (Java), Computer Architecture, Programming Paradigms

EXPERIENCE

Full Stack Engineering Intern — *Y Stem and Chess*   May 2024 — Aug 2024
- Migrated the frontend educational platform from Vue.js to and integrated it with existing backend resources
- Increased speeds for our 100+ student users and increase efficiency and code readability within our 10 person team
- Integrated websockets into a virtual chess board to allow users to play low-latency chess games and learn chess
- Collaborated with multiple teams to uphold coding standards and meet project deliverables

Full Stack Developer — *Software and Computer Engineering Society @ SJSU*   Sep 2024 — Present
- Collaborating with a team of 10 students to create a campus wide scheduling tool for the 36000 students at SJSU
- Leveraging Next.js, SQL, and web scraping to allow users to find professors based on databases of courses
- Developing a smart search feature to create comprehensive search capabilities across the site

Full Stack Developer — *Association for Computing Machinery @ SJSU*   Sep 2024 — Present
- Developing the onboarding flow for our 1000+ members to increase member engagement and opportunities
- Collaborating with designers and backend devs to implement the UX/UI on the website using Figma and React
- Designing admin pages to allow ability for officers to keep all website information up to date

PROJECTS

Access Finder (dev.accessfinder.org) — *Typescript, Next.js, SQL, Tailwind CSS, Supabase*   Dec 2024 — Present
- Engineering a web platform to help users with disabilities identify and rate accessible places and services
- Utilizing location data via the OpenStreetMap API to provide location data and enable search functionality
- Designing a PostgreSQL database and creating responsive, accessibility-focused user interfaces with Tailwind

Scrobble Quiz (scrob.nayasinghania.com) — *Typescript, Next.js, Tailwind CSS, Python, FastAPI, K-Means* Feb 2025 — Present
- Analyzing user listening history across various time periods to generate tailored quiz questions
- Preprocessing and clustering music data using K-means to identify listening patterns and improve question relevance
- Generating dynamic quiz prompts with Llama AI models based on structured and processed user data

Persona.fm — *Typescript, Next.js, LLMs, Drizzle, Tailwind CSS, Supabase*   April 2022 — Feb 2025
- Developed a web app that uses generative AI to provide Last.fm users with a persona of their listening habits
- Implemented a PostgreSQL database via Drizzle ORM and authentication via Last.fm's API
- Integrated the OpenAI API and Last.fm API to generate personalized music "personas" for users
- Maintained open source documentation and actively collaborated with 10+ contributors

ChairSense — *Embedded C++, Arduino*   Nov 2021 — July 2022
- Researched existing solutions and identified a gap in affordable obstacle detection devices for wheelchair users
- Prototyped and programmed a low-cost Arduino-based device to detect obstacles and prevent collisions

TECHNICAL SKILLS

- **Programming Languages**: Typescript, Javascript, SQL, Python, HTML, CSS, Java, Embedded C++,
- **Technologies**: Next.js, React, LLMs, K-Means, Tailwind CSS, FastAPI, Astro, Vite, Arduino
- **Development Tools**: Supabase, Drizzle, Figma, Docker