

# Naya Singhania

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## EDUCATION

**San José State University** — *San José, CA* Aug 2023 — May 2027  
*Bachelor's of Science in Computer Science and Certificate in 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](https://dev.accessfinder.org)) — *Typescript, Next.js, SQL, Tailwind CSS, Supabase* Jan 2025 — 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](https://scrob.nayasinghania.com)) — *Typescript, Next.js, Tailwind CSS, Python, FastAPI, K-Means* Jan 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* June 2024 — Dec 2024

- 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* Sep 2021 — Dec 2021

- 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