

# Naina Singh

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| [github.com/n2singh](https://github.com/n2singh)

## EDUCATION

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**University of California San Diego**  
*Bachelor of Science in Computer Science*  
**Independence High School**  
*High School Diploma*

La Jolla, CA  
Sept. 2022 – June 2026  
Bakersfield, CA  
Aug. 2018 – May 2022

## EXPERIENCE

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**Business Intelligence Extern**  
*Kern Health Systems*

June 2024 – August 2024  
Bakersfield, CA

- Explored ways to visualize the information from two different sources for an upgrade project
- Developed a working dashboard application using SQL code in SSMS, Microsoft Excel, and Microsoft Power BI
- Collaborated with mentors to understand the data collection and queries needed for the development of Kern Health Care

**Tutor For CSE 11**  
*University of California San Diego*

Oct 2023 – Dec 2023  
La Jolla, CA

- Course: Intro To Programming And Computational Problem-Solving: Accelerated (Java)
- Attended lectures and lab/discussion sections adhering to the students' needs
- Held office hours in-person and online to mentor students to the correct solution and held review/problem solving sessions
- Attended Instructional Assistant meetings, i.e. tutor and TA meetings to create the best environment and education for the course taught
- Proctored and graded exams

## PROJECTS

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**USC Summer Programs - Discover Engineering** | *TinkerCAD, RockSim, ROBOTC*

June 2018 – July 2018

- Portfolio: <https://sites.google.com/view/groupateam1/home>
- Designed and programmed a virtual robot to navigate a natural or man-made disaster scene using various sensors and switches.
- Developed a bridge in multiple modeling programs according to certain specifications acknowledging how forces were applied across a bridge.
- Tasked with creating a processing unit of an early warning system for COVID for vulnerable populations.
- Built a three-stage model rocket capable of launching a  $CO_2$  capture device.

**ACM - STritons** | *MongoDB, Express, React, Node.js, Github, VSCode*

Oct 2023 – Dec 2023

- Portfolio: <https://tinyurl.com/STRITONS>
- Built a website named STritons (for "Strong Tritons") that introduces students to various exercises and specific routines, as well as having the ability to plan their workout and connect to UCSD's Rimac Gym
- Implemented continuous delivery of the frontend and backend using the MERN stack
- Collaborated with like-minded students also selectively chosen to administer a functional and creative product

**NFA to DFA Converter** | *VSCode, GitHub, AI, Turing Machines*

Apr 2024 – May 2024

- Portfolio: <https://github.com/n2singh/CSE105project>
- Implemented the construction that converts a NFA to DFA, and illustrated the theorem that every regular language is decidable
- Programmed in Java and used Junit testing to ensure the code compiled effectively and accurately
- Adhered to specifications of this project by the clear specification of alphabet and state diagram of chosen three-state NFA.

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Assembly,

**Frameworks:** MongoDB, Express, React, Node.js, JUnit

**Developer Tools:** Git, Docker, Azure DevOps, VS Code, Visual Studio, Eclipse, Github

**Libraries:** pandas, NumPy, jQuery