Nathaniel Hernandez

nathanieleh@gmail.com | (657) 201-0595 | linkedin.com/in/nathanieleh/ | github.com/nathanieleh
Portfolio: hernandezportfolio.pages.dev/src/

EDUCATION

University of California San Diego - La Jolla   June 2025

Mathematics-Computer Science B.S.   *GPA: 3.98 / 4.0*

- Eta Kappa Nu (HKN) IEEE Honor Society Member
- HSF Scholar 2023 - (**8% acceptance rate**) Based on academic achievement while also being of Hispanic heritage.
- Provost's Honors (**5/5 quarters**) - Earned a GPA of 3.5 or higher in the quarter.

SKILLS

- Java
- HTML | CSS | JS
- React.js
- GitHub
- Git
- Vim
- C++
- C
- Unity
- Bash
- Figma
- MATLAB
- R
- Sass

PROJECTS

CHESS AI (Pending) | nathanieleh.github.io/Chess/index.html   February 2024 - Present

- Created a graphical user interface which allows for player versus player or versus AI functionality.
- Researched techniques such as the **minimax algorithm** with **alpha beta pruning** to calculate best moves.
- Optimized performance of AI decision making by conducting experiments after refining score evaluations.

MINESWEEPER | minesweeper-em9.pages.dev   June 2023 - August 2023

- Assembled a new visualization of the Minesweeper game while self-learning **React** in under **30 days** of development.
- Collaborated on a daily basis with **Visual Studio Live Share** to encourage discussion and joint programming.
- Analyzed recreations of the Minesweeper game to reverse engineer the features necessary in replicating the game.

EXPERIENCE

Strides Running Club - UCSD, La Jolla   December 2022 - Present

Treasurer | Officer

- Support a positive and inclusive running environment for over **700** casual runners.
- Organize designated running days for **6 days a week** while ensuring a safe experience for everyone.
- Lead fundraisers/crowdfunding to finance monthly social events for the club throughout the school year.

California State University of Fullerton - Fullerton, CA   June 2021 - July 2021

Cyber Security Research Intern

- Collected information from **13** different companies to interpret the patterns in which corporations handle sensitive user information on their platforms and evaluate the potential benefits or flaws to their techniques.
- Hosted formal presentations to report findings and to refine research on a weekly basis.
- Finalized a **4 page report** summarizing the practices of handling user information and how to improve upon that.

CERTIFICATIONS

- Advanced Data Structures in Java - *UCSD*   September 2023
- Introduction to CSS - *Sololearn*   June 2023
- Introduction to HTML - *Sololearn*   July 2023
- CompTIA IT Fundamentals+ - *CompTIA*   January 2020