# Ralph Parin

## r.parin070@gmail.com | <u>Linkedin</u> | <u>Github</u> | <u>Portfolio</u>

#### **EDUCATION**

University of California, Irvine

GPA: 3.613

Irvine, CA

Bachelor of Science in Computer Science

GD1 0050

Pasadena, CA

Pasadena City College Associate's in Natural Sciences GPA: 3.852

Sep. 2017 – June 2020

Sep. 2020 - June 2023

# Relevant Courses

Requirements Analysis and Engineering, Human Computer Interaction, User Interaction Software, Information Retrieval, Design and Analysis of Algorithms, Data Structure Implementation and Analysis

#### Projects

# Graphing Calculator $\mid C++, SFML$

- Support for multiple graph types, including Cartesian, and polar graphs
- Created a custom parser based on postfix notation to ensure accurate calculations and handle errors easily
- Developed advanced features like saving graphs, zooming, dragging, and displaying multiple graphs

# Sudoku | Python, Tkinter

- Developed a Sudoku generator algorithm to create unique puzzles with varying levels of difficulty
- Created a detailed help menu with clear instructions and undo/redo buttons for improved gameplay experience
- Implemented custom error checking to enforce Sudoku rules and prevent invalid inputs

## Sleep Tracker | Angular, HTML, CSS, Firebase, Git, Ionic

- Designed a user-friendly interface for easy logging of fatigue levels, wake-up mood, and sleep history tracking
- Cross-platform compatibility for both iOS and Android devices
- Utilized Firebase to create a secure and reliable cloud-based database to store user data

# $\mathbf{DataQL} \mid \mathit{C}++$

- Created a database management system utilizing data structures like linked lists, maps, and binary trees
- Developed a custom finite-state machine to parse user commands
- Implemented a range of features, including load, insert, select, save, delete, and show data

### TECHNICAL SKILLS

Languages: C++, CSS, HTML, JavaScript, Python, TypeScript

Frameworks: Angular, Ionic, Tailwind

Developer Tools: Figma, Firebase, PyCharm, VS Code, Visual Studio, Git

Libraries: NumPy, Pandas, SFML, Tkinter