

# Ralph Parin

[r.parin070@gmail.com](mailto:r.parin070@gmail.com) | [Linkedin](#) | [Github](#) | [Portfolio](#)

## EDUCATION

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**University of California, Irvine**  
*Bachelor of Science in Computer Science*

GPA: 3.670      Irvine, CA  
*Sep. 2020 – June 2023*

**Pasadena City College**  
*Associate's in Natural Sciences*

GPA: 3.852      Pasadena, CA  
*Sep. 2017 – June 2020*

## RELEVANT COURSES

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Software Engineering, Data Management, Requirements Analysis, Human Computer Interaction, User Interaction  
Software, Information Retrieval, Data Structures, Project in Algorithms and Data Structures, Project in Software  
System Design

## EXPERIENCE

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**Student Software Developer | Summit Technology Laboratory**  
*Angular, ASP.Net, MySQL*

April 2023 – June 2023  
*Irvine, CA*

- Collaborated with developers to create a Real Time Streaming web application that is accessible on both desktop and mobile devices
- Used Figma to create multiple wireframes i.e landing page, register page, host and viewer page
- Participated in weekly code reviews and assisted in enhancing overall code quality and maintainability, 50+ code refactored

## PROJECTS

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**Search Engine** | *Python, Flask* | [Github](#)

- Applied ranking algorithms such as cosine similarity to provide accurate and meaningful search results
- Utilized pandas dataframes, heaps, and dictionaries to allow for fast and efficient indexing and retrieval of data
- Arrange multiple meetings to gather project requirements and split tasks based on interests and individual strengths

**Graphing Calculator** | *C++, SFML* | [Github](#)

- 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* | [Github](#)

- Utilized a Sudoku generator algorithm to create unique puzzles with varying levels of difficulty
- Created a detailed help menu with clear instructions on how to play
- Implemented undo/redo buttons for improved gameplay experience

**Sleep Tracker** | *Angular, HTML, CSS, Firebase, Git, Ionic* | [Github](#)

- 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

**Clinical Trials Map** | *React, ExpressJs, Git, Notion*

- Collaborated with other students to create an interactive map of Clinical Trial data using Mapbox
- Utilized Notion to keep track of tasks and milestones, increasing transparency and collaboration
- Designed a multi-colored marker system to highlight a single trial occurring at multiple locations

## TECHNICAL SKILLS

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

**Frameworks:** Angular, Ionic, React, Tailwind

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

**Libraries:** NumPy, Pandas, SFML