

# Ralph Parin

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## 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
- Leveraged CSS media queries and grid layout, to create a fluid and intuitive user interface
- 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
- Collaborated with team 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](#)

- 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* | [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

**DataQL** | *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

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**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