

# 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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Introduction to Software Engineering, Introduction to Data Management, Requirements Analysis and Engineering, Human Computer Interaction, User Interaction Software, Information Retrieval, Design and Analysis of Algorithms, Data Structure Implementation and Analysis, Project in Algorithms and Data Structures, Project in Software System Design

## EXPERIENCE

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**Front End Developer | Summit Technology Laboratory**  
*Angular, ASP.Net, MySQL*

April 2023 – June 2023  
*Irvine, CA*

- Collaborated with teams to gather requirements, understand project goals, and translated them into wireframes using Figma, subsequently transforming the wireframes into responsive web applications using Angular
- Used Model View Controller (MVC) design pattern to allow for seamless integration of design components and functionalities
- Participated in weekly code reviews and assisted in enhancing overall code quality and maintainability

## 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, Tkinter