

Ralph Parin

(626) 615-1438 | r.parin070@gmail.com | www.linkedin.com/in/rparin | <https://rparin.github.io>

EDUCATION

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- University of California, Irvine** | *Bachelor of Science in Computer Science* Sep. 2020 - June 2023
- GPA: 3.61
- Pasadena City College** | *Associate's in Natural Sciences* Sep. 2017 - June 2020
- GPA: 3.85

RELEVANT COURSES

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** | *Angular, ASP.NET, MySQL* April 2023 - June 2023
Summit Technology Laboratory | Irvine, CA
- Collaborate with developers to create a Real Time Streaming web application that is accessible on both desktop and mobile devices
 - Use Figma to create multiple wireframes i.e. landing page, register page, host and viewer page
 - Participate in weekly code reviews and assist in enhancing overall code quality and maintainability resulting in 50+ code refactored

PROJECTS

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- Clinical Trials Map** | *React, ExpressJs, Git, Notion* | [Github](#)
- 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
- Sleep Tracker** | *Angular, Firebase, Git* | [Github](#)
- Designed a user-friendly interface for easy logging of fatigue levels, wake-up mood, and sleep history tracking
 - Utilized Firebase to create a secure and reliable cloud-based database to store user data
 - Conducted regular meetings to exchange ideas, ensuring collective alignment on features and design elements
- 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

TECHNICAL SKILLS

Languages: C++, CSS, HTML, JavaScript, Python, TypeScript
Frameworks: Angular, React
Developer Tools: Figma, Firebase, Git, PyCharm, Mapbox, Notion, VS Code, Visual Studio
Libraries: NumPy, Pandas, SFML, Tailwind