Ralph Parin

r.parin070@gmail.com | www.linkedin.com/in/rparin | https://rparin.github.io

EDUCATION

University of California, Irvine | *Bachelor of Science in Computer Science* September 2020 - June 2023
- GPA: 3.67
- Specialization in Information

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

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

Spotify Artist Network | *Nextjs, React, ExpressJs, React Query, Zod* | Github | Website
- Utilize Spotify API to create a website for exploring an artist's network of related artists
- Reduce load times through React Query by caching recent queries
- Implement Zod for validating server-side data, ensuring data integrity and security

Clinical Trials Map | *React, ExpressJs, Git, Notion* | Github
- Collaborate with other students to create an interactive map of Clinical Trial data using Mapbox
- Utilize Notion to keep track of tasks and milestones, increasing transparency and collaboration
- Design and implement a multi-colored marker system to highlight a single trial occurring at multiple locations

Search Engine | *Python, Flask* | Github
- Apply ranking algorithms such as cosine similarity to provide accurate and meaningful search results
- Utilize 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
- Create a custom parser based on postfix notation to ensure accurate calculations and handle errors easily
- Develop advanced features like saving graphs, zooming, dragging, and displaying multiple graphs

Sudoku | *Python, Tkinter* | Github
- Utilize a Sudoku generator algorithm to create unique puzzles with varying levels of difficulty
- Create a detailed help menu with clear instructions on how to play
- Implement undo and redo buttons for improved gameplay experience

TECHNICAL SKILLS

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