

Ralph Parin

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EDUCATION

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

September 2020 - June 2023

- GPA: 3.67
- Specialization in Information

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

Hello Dog | *React, Nextjs, Zod, Spring Boot, Junit, Postman, Docker* | [Github](#) | [Website](#)

June 2024 - Jul 2024

- Create unit and integration tests, ensuring reliability and consistency of the back-end services
- Improve code readability and maintainability by using data transfer objects (DTOs) and models to efficiently handle data exchange between different layers of the application
- Utilize Docker to containerize the application, ensuring consistent environments and improving scalability

Spotify Artist Network | *React, Nextjs, ExpressJs, Postman, Zod* | [Github](#) | [Website](#)

Oct 2023 - Dec 2023

- 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, Postman, Notion* | [Github](#)

Aug 2023 - Sep 2023

- 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*

May 2023 - June 2023

- 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

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

Nov 2022 - Dec 2022

- Design a user-friendly interface for easy logging of fatigue levels, wake-up mood, and sleep history tracking
- Utilize Angular's routing module to enable seamless navigation between different data views
- Leverage Angular services to manage communication between the application and Firebase, ensuring smooth real-time data updates

TECHNICAL SKILLS

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

Frameworks: Angular, Nextjs, Spring Boot, Junit

Developer Tools: Docker, Figma, Firebase, Git, IntelliJ IDEA, Notion, Postman, PyCharm, VS Code, Visual Studio

Libraries: Mapbox, NumPy, Pandas, SFML, Tailwind, Tanstack Query, Zod