Nil Patel

951-256-6200 | nilrnp@gmail.com | linkedin.com/in/nilrnp | github.com/nilrnp

EDUCATION

California State Polytechnic University, Pomona Pomona, CA

Bachelor of Computer Science *Expected May 2024*

- GPA: 3.6
- Relevant Coursework: Data Structures, Algorithms, Computer Architecture, Operating Systems, Programming Languages

EXPERIENCE

Undergraduate Research Assistant December 2021 – August 2022

California State Polytechnic University, Pomona *Pomona, CA*

- Developed and implemented controller software for Boston Dynamics' Spot robot in a team of software engineering research assistants.
- Collaborated with cross-functional teams, including electrical engineers and mechanical engineers, to ensure seamless integration of software with hardware components.
- Presented the Spot robot's capabilities and potential applications to various audiences, including classrooms and academic conferences.

COMMUNITY & LEADERSHIP

Board Member October 2022 – Present

CPP SEA (Software Engineering Association) *Pomona, CA*

- Led LeetCode and resume workshops to equip members with practical skills for job applications and software engineering interviews.
- Managed and maintained the club's communication channels by creating and sending HTML emails to keep members informed of events and activities.
- Organized social events to foster a sense of community among members and promote networking opportunities within the software engineering industry.

PROJECTS

NBA Statistics Application | *Technologies used: Flutter, Dart, Firebase* January 2023 – April 2023

- Designed and developed a Flutter application that provides users with up-to-date statistics for NBA players during the current season, utilizing Sports.io's API for statistical data.
- Implemented Firebase authentication to enable secure sign-in/sign-out functionality for users and ensure the protection of sensitive user data.
- Enabled users to view players' statistics by team and search for players by name, enhancing the application's accessibility and usability. Additionally, published the application on Google Play to reach a wider audience and increase its visibility.

Hospital Management Subsystem | *Technologies used: Python, SQL, Tkinter* August 2022 – December 2022

- Developed a user-friendly Python application using SQL and MySQL databases, as well as the TKinter library for the UI, that enables patients and hospital staff to manage patient appointments securely through their own logins.
- Designed and implemented a comprehensive appointment scheduling system within the application, allowing users to schedule appointments, follow-up appointments, and appointments with specialty doctors with ease and efficiency.
- Ensured the application's robustness and security through rigorous testing and debugging, ensuring that patient data is kept confidential and that the application runs smoothly and reliably.

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, Dart, SQl, HTML, CSS
Frameworks: ReactJS, Bootstrap, Unity
Developer Tools: Git, Visual Studio Code, JUnit, Docker