

# Harsh Patel

Software Developer | Union City, CA

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## EDUCATION

### University of California, Riverside

Graduated with a Bachelor of Science in Computer Science in December 2023

Riverside, CA

September 2021 - December 2023

## SKILLS

**Expertise & Interests:** Full-Stack Development, Software Development, Problem Solving, Containerization, API management, Algorithm Design

**Programming:** C++, Python, JavaScript, React, HTML/CSS, Java, SQL, Go

**Frameworks & IDEs:** Flask, Next Js, Visual Studio Code, Android Studio, Bootstrap, Flutter, Java SpringBoot

**Databases, Tools & OS:** AWS, Docker, Postgresql, MongoDB, Google Firebase, NoSQL, Git, Github, Jira, Postman, Google Test, Jest, Google Colaboratory, Vim, SSH, Apache HTTP server, Pandas, Linux, Windows, Arduino

## WORK EXPERIENCE

### Co-Founding Engineer

Stealth Startup

Union City, CA

May 2023 - Current

- Collaborated with 2 other engineers on a home security based device to combine NAS and web technologies
- Containerized development using **Docker Compose** to reduce setup time of the environment and deploy efficiently
- Designed the backend system architecture in **Go** and created **Linux shell** startup scripts to automate system processes
- Stored data in **PostgreSQL** for fast retrieval and content management via API requests

### Software Developer

PDDN INC

Fremont, CA

February 2024 – Current

- Upgraded a TimeSheet Application with **Java Spring Boot** 1.5 to 3.2 and integrated **React** library components and hooks
- Utilized **Docker Compose** for containerizing development and managed project dependencies with **Jira**
- Implemented Multi-Factor Authentication and **token-based authentication** to secure user/admin access and **API** requests

## PROJECTS

### PenguinPal Email AI Assistant ([PenguinPal](#) | [Devpost](#))

October 2024

- Developed a full-stack web application using **React** with **Python Flask** to reduce time spent on emails
- Leveraged **Claude 3.5 Sonnet LLM** to summarize, categorize and rank emails based on priority
- Secured 1st Place with my team at [Cerebral Beach Hacks](#) on Best Use of Kindo and WhiteRabbitNeo

### Task Management Application

March 2024 - June 2024

- Developed a full-stack web application using **React** that integrates user-input tasks and outputs a scheduled calendar
- Created a fast and efficient API methods in **Python** and used **Flask** to send and retrieve data on the backend
- Improved scalability by using **MongoDB Atlas** and automated indexing for enhancing performance
- Mitigated integration issues and ensured accurate results by implementing mock functions using **jest**

### Movie Recommendation Website ([Slides](#))

August 2023

- Designed a full-stack web application for generating a suggestion of movies based on a user's interest and history
- Implemented **unsupervised learning** algorithm in **Python** that would output 25 suggestions in 819 ms using **Flask**
- Collaborated with 3 developers and motivated the team to implement more features within a 4 week timeframe

### Non-Relational C++ Database ([github.com/CS180-spring/cs180-23-the-a-team](https://github.com/CS180-spring/cs180-23-the-a-team))

March 2023 - June 2023

- Architected a robust offline document storage program using **C++**, to have high throughput and low latency in a local DB
- Implemented Doubly Linked Lists to have high scalability, reducing information retrieval time and sorting by  $O(n \log n)$
- Coordinated with 5 developers to focus on minimizing runtime and to develop functionalities such as file conversion
- Validated correct implementations through **unit testing** with **GoogleTest** and ensuring system's robustness and reliability