

# SIDDHANT THAKARE

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## EDUCATION

University of California, Riverside

Sep 2023 – Dec 2024

M.S. in Computer Science

GPA: 3.93/4

Relevant Coursework: Operating System, Algorithms, Database Management Systems

BITS Pilani Hyderabad Campus

Aug 2018 – Jun 2022

Bachelor of Engineering

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Design

## TECHNICAL SKILLS

**Languages:** Typescript, Javascript, HTML, CSS, Go, Java, C/C++, Python, SQL

**Frontend Technologies:** ReactJS, NextJS, Redux, Axios, Jest (Unit Testing)

**Backend Technologies:** Node, REST, Express, GraphQL, gRPC, Springboot, Flask, Jest (Unit Testing)

**Databases and Frameworks:** MongoDB, PostgreSQL, MySQL, DynamoDB, Redis

**Development and Deployment Tools:** Git, Maven, Dagger, npm, Terraform (IaC), AWS CDK (IaC), Jenkins (CI/CD)

**Cloud Technologies (AWS):** EC2 (Linux), S3, Lambda, API Gateway, CloudFront, CloudFormation

## EXPERIENCE

Kfintech

Jul 2022 – Aug 2023

Full Stack Developer

Hyderabad, India

- Supervised and worked with the **10-member** frontend team of the organization, which worked, using agile development methodologies, on the fintech products responsible for over **200K daily** transactions amounting to **60M USD**.
- Led the **4-member** frontend (utilizing TypeScript & React) and **3-member** backend (leveraging PostgreSQL, Serverless Functions & Microservices) team, responsible for developing the Distributor Onboarding SaaS Solution.
- Designed the Distributor Onboarding SaaS solution which successfully generated **40K USD** in revenue and **20% profit** for the organization over the period of **2 quarters**, after being adopted by **3 clients**.
- Overseen the setting up of the best practices and tech stack to increase the scalability, maintainability, and performance of the web applications by **35%** and the dev team's efficiency by **60-70%** as measured by the delivery time required.

Amazon

Feb 2022 – Jun 2022

SDE Intern

Bangalore, India

- Built an internal S3 document viewer tool, as part of our agile workflow, to directly view, analyze, and debug documents stored within S3 buckets, to resolve bugs, which increased the team's efficiency by **50%** in such bug scenarios.
- Developed the scalable S3 document viewer micro-service using ReactJS for frontend, Java & Serverless functions for backend, and AWS for hosting to get a human-friendly reading interface able to fetch documents under **700ms**.
- Implemented **more than 10** Data metric dashboards in AWS CloudWatch for the team, which was used during the team's on-call, leading to a **200% increase** in productivity of the on-calls.

## PERSONAL PROJECTS

**SmartHealth: Healthcare Management System** | Java, Spring Boot, REST API, ReactJs, Typescript, MySQL

- Developed a comprehensive healthcare management system that allowed patients to book appointments, view medical records, and communicate with healthcare providers.
- Leveraged Java, Spring Boot, and REST APIs for backend development, paired with ReactJS and TypeScript for the frontend, and utilized MySQL for robust database management.
- Integrated Spring Security to provide role-based access control, ensuring sensitive data was protected and accessible only to authorized users.
- Achieved a **60%** improvement in appointment booking speed and data retrieval times by optimizing database queries and leveraging Spring Boot's built-in caching mechanisms.

**Pacman AI** | AI, Search Algorithms, Python

- Created AI, written in Python, which enabled the real player to auto-play the Pacman game and win in every case by collecting all the score points in the Pacman puzzle.
- Implemented the AI using efficient A-star and Uniform Cost Search algorithms to get **50%** faster results compared to typical BFS and DFS-based AIs.