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: Machine Learning & AI, Advanced Algorithms, Database

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, VueJS, NextJS, Angular, Webpack, Vite, Redux, Axios, Jest (Unit Testing)
Backend Technologies: Node, REST, Express, GraphQL, gRPC, Springboot, Flask, Jest (Unit Test)
Databases and Frameworks: MongoDB, PostgreSQL, MySQL, NoSQL, DynamoDB, Redis
DevTools: Git, Docker & Kubernetes, Terraform & AWS CDK (Infrastructure as code), Jenkins (CI/CD)
Cloud: AWS, Azure, GCP, Serverless Functions (Lambda), Virtual Servers (EC2 & Linux), Document Storages (S3), CDNs (CloudFront), Containers (ECS)

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 multi-tenant 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, using micro-service architecture & as part of the team's agile workflow, to directly view, and analyze documents stored within S3 buckets, to resolve bugs, which increased the team's efficiency by **50%**.
- Developed the scalable S3 document viewer using ReactJS for frontend; Java, Serverless functions & automated testing for backend, and AWS for hosting to get the app which was 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

Collaborative Whiteboard Application with Real-Time Sharing | *React, React Konva, Node.js, WebSockets, E2E Encryption*

- Developed a collaborative whiteboard application using React Konva where users can draw, and collaborate in real time.
- Implemented a backend using Node.js and WebSockets for real-time communication between users. Each whiteboard session was end-to-end encrypted to ensure that the drawing data could only be accessed by authorized participants.
- The application improved remote team collaboration by providing a secure, interactive space for real-time brainstorming and drawing sessions. It increased engagement and reduced the need for screen-sharing tools by **30%**.

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.

NutriSpark: Food Environment Study | *Distributed Computing, Data Science and Analytics, Apache PySpark*

- Carried out data analytics on Food Environment Atlas' big data in Python to get insights on various categories like population, state expenditure, etc.
- Exploited distributed computing and Apache PySpark to achieve a speedup of more than **80x** on data analysis methods like data transformations, aggregations, and visualizations.