Rhythm Patel

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EDUCATION

Arizona State University	Tempe, AZ
Master of Computer Science	*May 2024 (Expected)*
Dhirubhai Ambani Institute of Information and Communication Technology	Gandhinagar, India
Bachelor of Technology in Information and Communication Technology	*May 2021*

TECHNICAL SKILLS

Languages: C/C++, SQL, JavaScript, HTML/CSS, Typescript, Python
Libraries and Frameworks: React, Redux, Next.js, Node.js, GraphQL, TailwindCSS, Storybook.js, SCSS, Express
Developer Tools: Git, VS Code, NPM, Amazon Web Services (AWS)
Databases: MongoDB, PostgreSQL

PROFESSIONAL EXPERIENCE

Toddle - Your Teaching Partner — Bangalore, India
Product Engineer — *07/21 – 05/22*

- Designed the APIs of highly reusable components and implemented those components using React Typescript and TailwindCSS for the design system used in all the frontend projects of the company
- Implemented a math equation editor using React-Mathlive and Mathjax-Node to convert a latex math equation into a compressed base64 image within 5 seconds, and vice-versa
- Employed Gitlab Multi-project pipelines to automate the deployment and package version updation across multiple projects, effectively reducing updation time from 25 minutes to 10 minutes
- Maintained the storybook of the design system using Storybook.js for reference of other developers and designers

Toddle - Your Teaching Partner — Bangalore, India
Frontend Engineering Intern — *01/21 – 06/21*

- Integrated a third-party image annotation tool with the web platform and created the flow to enable editing images using iframe communication
- Collaborated in a team of 5 engineers for adding high-impact features in the Classroom and Portfolio team using React, GraphQL and PostgreSQL

Amazon — Bangalore, India
Software Development Engineering Intern — *05/20 – 06/20*

- Created a data-processing and analysis tool using Python Pandas to perform necessary sanity checks, generate insights about the dataset and preprocess the data to get the cleaner dataset, lowering the processing time for 1 GB CSV file to 20 minutes
- Launched an alert mechanism using AWS SES, which would send email to the mailing list about the data sanity of the desired parameters of the dataset
- Deployed the tool on AWS Lambda to facilitate preprocessing as soon as a new batch of datasets would be uploaded on an S3 bucket

PROJECTS

Change Data Capture | *AWS S3, DMS, RDS, Lambda, Glue, Pyspark, MySQL* | GitHub

- Engineered a replication ongoing architecture to continuously copy the changes happening in the local source data instance to the target S3 bucket
- Harnessed AWS DMS to migrate the data from a local MySQL instance to an S3 bucket
- Utilized AWS Lambda to invoke an AWS Glue job to process the new file using Pyspark and store the updated file in a target S3 bucket

Find My Events | *NextJS, Strapi CMS, Cloudinary* | GitHub

- Built an event posting web application, where the users could post their events and find other events and their information
- Used NextJS to create a faster web-application with better loading time due to server-side rendering, Strapi CMS for the backend and Cloudinary for image storage and optimization

RentsCents: Online rental platform | *NodeJS, Express, MongoDB, Angular* | GitHub

- Developed a webapp for an online rental platform, where the users could rent products from other users
- Designed and implemented the Rest APIs using NodeJS, Express and MongoDB on CRUD operations and secured authentication using cookies and email verification of the user, as well as the payment processes

Competitive Programming Website Database | *C, PostgreSQL* | GitHub

- Designed the database schema using methods like ER Diagram and normalisation for a competitive programming platform similar to the popular platform Codeforces
- Implemented a console-based application using C language for the querying and manipulation of data stored in a Postgres data cluster