

## SUMMARY

- **Full-Stack developer** with experience building complex production-ready applications that are **fast**, **scalable**, and **reliable**. I read about [backend architecture](#) in my free time and maintain [notes here](#).
- Highly skilled in **Data Structures and Algorithms**, with an ability to work in a fast-paced environment, to understand complex systems, and to quickly learn and adapt to emerging technologies and paradigms.

## TECHNICAL SKILLS

- **Languages:** C, C++, Java, Javascript, Python, SQL, HTML, CSS.
- **Tools and Frameworks:** ReactJS, Node.js, AWS Suite, MySQL, Serverless, GraphQL, Gatsby Cypress.

## WORK EXPERIENCE

Student Developer [[ReactJS](#), [Node.js](#), [PostgreSQL](#), [Python](#)] Google Summer of Code May 2019 – Aug 2019 ([Project Link](#))

- Developed a web-based solution to simulate and analyze constraint-based methods for metabolic networks under the **University of Nebraska-Lincoln**.
- Designed a stand-alone **web pipeline/service** that enables a user to submit an **SBML** model and perform **simulations** and **analysis** and displays an analysis graph accordingly.
- Defined and implemented a **complex database schema** for a **constrained-based Model** that can be tabulated within a PostgreSQL Database. The schema was easily **JSON serializable** so that it was exposed via a **REST API**.
- The UI contained end-to-end written using **cypress.io**.

Full-Stack Developer [[ReactJS](#), [Java](#), [Node.js](#), [MySQL](#), [AWS](#)] Quze Inc. May 2018 – Apr 2020

- Core technical team member focusing on building core application and deploying it on AWS.
- Implemented REST APIs deployed on **AWS API gateway** using **AWS lambda** for serverless setup.
- Incharge of capturing user activity data, analyzing events and generating reports to understand user behavior.
- Lead the efforts to switch the backend from **Java to Node.js** and followed the microservice architecture.
- Developed an **API generator tool** in JAVA that reduced the time of building APIs by **at least 40%**.

Web Developer [[HTML](#), [CSS](#)] Ahmedabad University Oct 2018 – Dec 2019

- Designed, developed and deployed the Annual Tech Fest website for School of engineering and applied Science, Ahmedabad University. More than 3000 students participated in various competitions.
- Technical team leader to design and develop the website for The Seventh International Conference on Big Data Analytics, where Springer will be publishing the accepted research papers. ([Project Link](#))

## EDUCATION

Ahmedabad University **Information and Communication Technology** **July 2017 – June 2021**

- **Coursework:** Operating Systems; Database Management Systems; Data Structures and Algorithms.

## ADDITIONAL PROJECTS

BooXchange [[BooXchange](#)] ([ReactJS](#), [Node.js](#), [MongoDB](#))

- A platform where students can buy or rent their books. Deployed using **Heroku CI/CD**
- Developed **CRUD APIs** using **Node.js** and designed UI which was implemented using **ReactJS**
- Implemented an **Admin Panel** which shows all the history of books bought, rented, added and deleted

SVG Renderer [[ccNetViz](#)] ([JavaScript](#))

- Designed an SVG rendering plugin that allows users to download **large-scale vector images** for the [ccNetViz library](#), a lightweight javascript library to visualize large network graphs
- Used various techniques for **lazy caching** of different drawing elements to gain high-performance

Travel Planner [[Database Management Systems](#)] [[GitHub](#)] ([HTML](#), [PHP](#), [MySQL](#))

- Designed the UI using HTML, CSS and PHP to handle events and take user inputs
- Implemented **Stored Procedures** and Functions to help book various tickets for traveling

Multi-Threading CPU [[Data Structure and Algorithms](#)] ([Java](#))

- Developed a Java application that replicated the multi-threading process depending upon user inputs

## ADDITIONAL EXPERIENCE AND AWARDS

- **IEEE Xtreme 2017:** [National Rank 124](#), a 24-hour coding competition.
- **Google Hash Code 2020:** [National Rank 226](#), (more than 3100+ teams from India)
- **Web-Development Series:** Conducted a 4 lecture series on web dev topics with more than 100 participants