Meet Patel

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Education

Birla Institute of Technology and Science, Pilani   *2020 – 2024*
B.E. in Computer Science
Minor in Finance

- **Coursework:** Database Systems, Object Oriented Programming, Data Structures and Algorithms, Cryptography, Operating Systems, Security Analysis and Portfolio Management

Experience

Associate Software Engineer Intern   *Bengaluru, India*
Digicert, Inc.   *Jul 2023 – Dec 2023*

- Successfully parallelized Cypress test automation reducing E2E testing time by **90%**(3+ hours to 30 mins)
- Contributed to front-end development by creating functional components for using *React/JavaScript/CSS*
- Configured **.json** files to ensure proper access control resolving **IDOR** vulnerabilities for **3 customers**
- Authored shell scripts for YAML-to-JSON configuration of key-value pairs reducing effort by**15%**
- Tools Used: React, Cypress, JavaScript/CSS, Shell

Projects

Workout Tracker   *github.com/patel-26meet/workout-tracker* ⎋

- Built a full-stack application with **JWT**-*based authentication* and *RESTful APIs* for workout management
- Implemented custom **middleware** for user *session handling* and data validation to ensure secure data access
- Designed a responsive dashboard featuring *workout tracking* with graphical representations showing progress
- Tools Used: React, Node, MongoDb Atlas, Express, REST API's

Binary Bishop - Chess Engine   *github.com/patel-26meet/binary-bishop* ⎋

- Engineered a chess engine, implementing algorithms like *Alpha-Beta pruning* for efficient move evaluation
- Optimized engine performance using dynamic programming with *transposition tables* and *zobrist hashing* for **position caching**
- Designed an **evaluation algorithm** on *piece and mobility values, positional tables,* and *space control factors*
- Tools Used: Python, python-chess

Discord Clone   *github.com/patel-26meet/discord-clone* ⎋

- Developed a Discord clone featuring **real-time messaging** with WebSocket integration for instant updates
- Implemented comprehensive **server/member management** system with role-based access control
- Built advanced features including *unique invite links*, *file sharing*, and *real-time message editing/deletion*
- Tools Used: NextJs, Prisma, Clerk, Tailwind CSS, ShadcnUI, MySQL

Password Manager   *Mar 2022 - Apr 2022*

- Developed a password manager to *store*, *manage* and *encrypt* passwords
- Implemented secure features including **password generation** and **password sharing**
- Stored the required information using MySQL and enabled *two-factor authentication*
- Tools Used: MySQL, NodeJs, React, Express

Skills/ Technical Proficiency

Technologies/frameworks: React, Node.js, Next.js, Git, Cypress
Languages: JavaScript, TypeScript, Python, Java, C++, C
Databases: MongoDB, MySQL

Position of Responsibilities

Gurjari Cultural Association, BITS Pilani   *Sept 2022 - May 2024*
President, Secretary

- **L**ead a team of **150+** members to organize 10+ events throughout the years
- Organized the biggest cultural event on campus with a **footfall** of **2000+** and generated **2 lakhs** of revenue