

# Raunak Mandal

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## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript

**Frameworks:** React, NextJS, NodeJS, Express

**Developer Tools:** Git, VS Code, Android Studio

**Databases:** MongoDB, SQL

**Libraries:** Ant Design, Tailwind CSS

## EXPERIENCE

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### Software Engineer - Terralytics Analysis Private Limited

June 2023 – Present

*Next, TypeScript, MongoDB*

*Bangalore, India*

- Migrated a legacy platform from Django and React to Next.js and Express, reducing load time by 80% and improving user efficiency by over 50%.
- Implemented Aadhaar and certificate-based digital signatures to accelerate the Legal Report signing process for a team of 20+ lawyers.
- Integrated Razorpay Payment Link and Invoices within the application to facilitate seamless payment capture.
- Revamped multiple microservices to process PDF parsing, Excel file generation, and email handling.

### Engineering Intern - Fyle Technologies

October 2022 – February 2023

*AngularJS, Scss, JavaScript*

*Remote*

- Overhauled the View Report page with significant user interface enhancements for a user base of over 200.
- Redesigned the Manage Columns component for broader organizational use.
- Migrated legacy AngularJS components and codebase, resolving 10+ critical issues.

## EDUCATION

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### Bengal Institute of Technology

August 2019 - July 2023

*Computer Science and Engineering, CGPA - 9.10*

*Kolkata, India*

## PROJECTS

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### Bits-2-Bytes 2K22 Website | NodeJS, ExpressJS, React, MongoDB, Firebase

May 2022 – July 2022

- Led the website architecture design in collaboration with a team of 5.
- Developed the majority of the frontend using React.
- Contributed to the backend development using Express.
- Successfully launched a website capable of handling over 250 concurrent users.

### Quick WhatsApp | Android, Java, XML

December 2020 - February 2021

- Developed a mobile app enabling WhatsApp messaging without saving phone numbers.
- Leveraged open-source libraries for enhanced UI design.
- Integrated app with Android's text share menu for direct message initiation.

### SST Password | Android, Java, XML, NodeJS, ExpressJS, MongoDB

December 2020 - February 2021

- Developed a full-stack password manager application, prioritizing authentication, database optimization, and load time performance.
- Independently designed and built a native Android app and backend infrastructure adhering to best practices.
- Significantly enhanced app performance by utilizing the Android Room database to reduce API calls by 90%.

## ACHIEVEMENTS

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- Qualified for ACM ICPC Amritapuri 2021 Regionals.
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- Jointly won first prize at a college hackathon during the first month.