

ANURAG ROY

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Experience

TwoPiRadian Infotech Pvt. Ltd

Software Engineer

Aug 2019 – Present

Kolkata, India

- WiredScore

June 2020 – Present

- Developed the frontend for WiredScore's **building certification platform** using **Angular** with internationalization (**i18n**), analytics (**GTM**, **GA4**) and comprehensive **Cypress** tests.
- Developed a performant offline-capable Progressive Web App (**PWA**) using **Angular** and **Ionic**, leveraging technologies such as **Service Worker**, Indexed DB, and Worker Threads enabling WiredScore survey engineers to seamlessly conduct building audits in **low connectivity areas**.
- Implemented a robust **notification management system** using **AWS API Gateway** **WebSockets**, and **DynamoDB**, resulting in improved real-time communication and enhanced user experience.
- Designed an **auto-scaling CI pipeline** for running parallel Cypress tests using **GitHub Actions**, resulting in a reduction of overall CI/CD test times by **3x**.

- Imidia

Aug 2019 – May 2020

- Assisted in development of an **internal dashboard** using **Node.js**, **Express**, **MongoDB**, and **Handlebars** to effectively monitor and manage long-running and failing SnapLogic pipelines. Integrated **PDF report generation** with **jsPDF** and email alert functionalities for timely notifications and streamlined reporting processes.
- Explored innovative data visualisation techniques to present **Stardog knowledge graphs** in web browsers. Successfully built two proof-of-concept projects: an inventory management system with **Metaphactory** and a fraud detection system with **React** and **Keylines**.

Projects

kiteconnect-ts | TypeScript, Node.js, TsDoc

kiteconnect.anuragroy.dev

- Ported **Zerodha's** KiteConnect library to TypeScript enabling library consumers to benefit from **type checking** and **IDE code completion**. The project in turn facilitated Zerodha's own TypeScript migration, where I have actively reviewed and provided assistance with pull requests.
- Implemented a streamlined workflow to generate a comprehensive **documentation website** from **TsDoc** comments within the source code.

OG Image Generator | React, Next.js, TailwindCSS

og.anuragroy.dev

- Developed an image generator that can be used to create on-demand **dynamic Open Graph images** on the edge using **Next.js** and **TailwindCSS**.

Education

Jadavpur University

Department of Computer Science & Engineering

2015 – 2019

Kolkata, India

- Bachelor of Engineering, graduated with **First Class** and **7.86 SGPA**
- Final Year Project: Identifying Influential Protein Markers for Alzheimer's using NMF
- Summer Project: ML-based Keyword Extraction from Biomedical Documents

Delhi Public School

Central Board of Secondary Education

2013 – 2015

Kolkata, India

- Got an aggregate of **94.20%** marks

Ramakrishna Mission Vidyalaya

West Bengal Board of Secondary Education

2013

Kolkata, India

- Got an aggregate of **90.14%** marks

Tech Stack

- HTML, CSS, JavaScript/TypeScript
- Angular, React, Next.js, Express
- Cypress, Mocha
- MySQL, MongoDB, DynamoDB
- AWS EC2, S3, Lambda, API Gateway Cognito, Cloudwatch