

Agrim Mehra

Software developer

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Professional Summary

Experienced software developer skilled in building maintainable web applications using JavaScript, TypeScript, React, and Redux. Proven ability to deliver intuitive, scalable user interfaces in Agile environments, collaborating with various functional stakeholders to develop user-centric, high-quality features. Proficient in integrating Rest APIs, implementing type safety in JavaScript code, and optimizing UI performance. Passionate about learning new technologies while delivering clean code. Also collaborated with back-end developers and willing to learn more backend tech stack.

Experience

Software Developer

Hysopt NV, Antwerp, Belgium

Sept. 2022 - Present

- Led UI improvements using React, TypeScript, and Redux Toolkit, reducing load times by 20%.
- Migrated legacy code from JavaScript to TypeScript, improving code maintainability, readability, and saving 30% of development time on future projects.
- Integrated APIs and optimized state management with Redux toolkit, improving data flow and performance.
- Migrated the chart depiction logic to Highcharts completely.
- Introduced selectors and actions to proficiently use the Redux toolkit mechanism with React components.

Software Developer Intern

Hysopt NV, Antwerp, Belgium

June 2021 - Aug. 2021

- Improved front-end performance by optimizing HTML canvas rendering, using offScreenCanvas to enhance performance by 15%.
- Developed a proof of concept (POC) for integrating Google Maps in the UI.

R&D Intern

AthenasOwl.tv, Mumbai, India

Jan. 2020 - Aug. 2020

- Developed a Chrome plugin for genre-based YouTube video skipping.
- Used machine learning models for real-time player tracking and jersey number identification in sports videos.

Education

Master of Engineering in Computer Science (AI Minor)

Katholieke Universiteit Leuven, Belgium

Sept. 2020 - Jan. 2023

Bachelor of Technology in Information Technology

IIIT Bhubaneswar, India

Aug. 2016 - May 2020

Technical Skills

🔧 **Core Technologies:** React, Redux Toolkit, JavaScript, TypeScript, HTML5, CSS3

🔧 **DevOps & Tools:** Git, GitHub, Bitbucket, Docker, AWS, LaunchDarkly, Webpack, VS Code, IntelliJ

🔧 **Testing:** Jest, React Testing Library

🔧 **Others:** REST APIs, Chrome Extensions, Highcharts

Technical Proficiency:

| | | |
|---------------|-------|-----|
| • React: | ★★★★★ | 5/5 |
| • JavaScript: | ★★★★★ | 4/5 |
| • Redux: | ★★★★★ | 4/5 |
| • TypeScript: | ★★★★★ | 4/5 |
| • HTML/CSS: | ★★★★★ | 5/5 |

Languages

English: Fluent (Professional working proficiency)

Dutch: Basic (A1–A2) — actively learning and motivated to improve

Projects

Real-Time AWS Data Ingestion & FastAPI API

April 2025

- Built a real-time data pipeline using AWS Lambda, EventBridge, RDS (PostgreSQL), and EC2.
- Scheduled ingestion every minute from Elia API, storing results in a PostgreSQL DB.
- Exposed the latest data through a FastAPI-based REST API hosted on EC2.

Migrating codebase to TypeScript

Oct 2022 - March. 2023

- Introduced type safety to the core files in the codebase to migrate them from JavaScript to TypeScript.

Optimizing HTML Canvas Rendering

June 2021 - Aug. 2021

- Enhanced HTML5 canvas rendering performance, improving UI responsiveness in Hysopt software.

Additional Information

Publications

- *Single Robot Path Planning using Nature Inspired Algorithm in a Static Environment.* IJARIT.
[View Publication](#)