# ARUN ALLI

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## WORK EXPERIENCE

**Techpearl Software Pvt Ltd** ↗      **Sep 2023 – Present**
*Full Stack Developer*      *Bengaluru, India*

- Serving as a Full Stack Engineer for one of our major clients, Conmet, on a project aimed at optimizing work order sequencing for Hub-and-Spoke manufacturing lines.
- Contributed to the development of the Work Order Scheduling system and the user interface.
- Optimized CNC machine operations by strategically scheduling tool changes, resulting in a **25% reduction** in machine idle time and increased overall production efficiency by **15%**.
- Leveraged **WebSockets** to provide real-time updates across all clients whenever any activity occurs, ensuring data accuracy and instant reflection on the dashboard, analytics, and other pages.
- Designed a **responsive** annotation tool for images and PDFs, enabling users to create and group bounding boxes efficiently, reducing data preprocessing time by **40%** for model training.

**Sharpener**      **Jan 2023 – Aug 2023**
*Frontend Developer*      *Remote*

- Trainee at Sharpener, mastering DSA and honing React.js frontend skills and software development lifecycle
- Developed a LinkedIn clone incorporating features like media posting, commenting, Google login, and infinite scroll, enhancing user interaction and achieving a **25% faster load time** compared to the initial prototype.
- Participated in a hackathon, where I built a mailbox client app that enables users to send mail to other registered users.

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, C
**Front End Development:** ReactJS, Redux, Context API, HTML, CSS, ES6, Tailwind CSS, Material UI
**Back End And DB:** NodeJS, ExpressJS, SQL, MongoDB, RESTful APIs, Firebase, Postman, JWT
**Miscellaneous:** Git/GitHub, Deployment, DSA, Problem Solving, OOPs, Agile, Software testing

## PROJECTS

**Work Order Scheduling (Techpearl)** | React, TailwindCss, Node, MySql

- Engineered a system to **optimize work order sequencing** for a specific customer, improving scheduling accuracy by **30%**.
- Developed a priority-based work order scheduling algorithm to optimize machine resource utilization.
- Utilized WebSockets to enable seamless real-time synchronization of work order statuses and activities across multiple user interfaces, improving system responsiveness and overall user experience.
- Integrated **SAP and MES APIs** to import work orders, then auto-scheduling them by the system or manually by the user (Line Supervisor)
- Implemented RESTful APIs and ensured secure authentication with JWT. Created login functionality that supports users with different roles and allows the super admin to create, delete, and update users.
- Built responsive UI using reusable react components that improved **code efficiency**.

**Annotation Tool (Techpearl)** | React, Material UI, Node

- Developed an image annotation tool that allows users to draw bounding boxes and obtain coordinates, streamlining tasks like object detection and data labeling.
- Rebuilt the complete user interface of the existing app with a new design, ensuring the best user experience, resulting in a **30% reduction** in loading time.
- Crafted features like grouping the bounding boxes, PDF annotation, and downloading as CSV, XML.
- Utilized Git for version control and managed repositories on BitBucket.

**Blinked In - Social media app** ↗ | React, Styled Components, Firebase

- Developed and launched a social media platform allowing users to post media, view other user's content, and engage through comments. Achieved over **100 active users** within the first month.
- Implemented **infinite scroll** to optimize content rendering and improve the browsing experience.
- Created a fully responsive interface using pure CSS, ensuring a consistent experience across devices.

## EDUCATION

**St. Peter's Engineering College**      **Jun 2018 – Jul 2022**
***B.Tech*** *- Electronics*      *Hyderabad, India*