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 increasing overall production efficiency by **15%**
- Engineered a user-friendly, **responsive** image annotation tool for enhanced usability.
- Received **Individual Contributor award** for ensuring high-quality software delivery

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

- Trainee at Sharpener, mastering DSA and honing React.js frontend skills and Software Development Lifecycle
- Developed a LinkedIn clone with dynamic features like Media posting, Commenting on posts, Google login, and infinite scroll.
- Participated in a hackathon, where I built a mailbox client app, which enables users to send mails 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.
- Led development of an algorithm to schedule work orders based on priority, effectively utilizing machine resources.
- Integrated **SAP and MES APIs** to import work orders, then auto-scheduling them by the system or manually by user (Line Supervisor)
- Implemented RESTful APIs and ensured secure authentication with JWT. Created login functionality that supports users with different roles. And allows super admin to create, delete and update the 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 bounded 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; increased user engagement by **40%** within the first quarter
- Introduced **infinite scroll** in the feed page for optimized content rendering and user experience
- Created responsive design built with only CSS

EDUCATION

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