

# Saumitra Topinkatti

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GitHub: <https://github.com/SBTopZZZ-LG>

Portfolio: <https://saumitra1912.com>

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## CAREER OBJECTIVE

As a person who grew up with technology and who is passionate about exploring new skills, I would like to work and succeed in a challenging, progressive, and constantly evolving environment and adopt new skills and technologies to tackle my problems, promote self-development and also help achieve the organisational goals.

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## EDUCATION

<b>Bachelor of Engineering in Computer Science</b>	<b>December 2020 - June 2024 (expected)</b>
KLS Gogte Institute of Technology Belgaum	
<b>XII</b>	<b>March 2020</b>
Govindram Seksaria Science College Belgaum	
<b>X</b>	<b>April 2018</b>
Dnyan Prabodhan Mandir (ICSE) Belgaum	

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## SKILLS

Languages: C/C++, Java, JavaScript/TypeScript, Dart

Databases: MySQL, SQLite, MongoDB, Firestore

Frameworks/Tools: React, Node.js, Flutter, Visual Studio, Android Studio, Xcode, GitHub

Other: Operating System, Socket Programming, Unix, Data Structures and Algorithms, Debugging and Testing, Figma

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## EXPERIENCE

**Software Development Intern - Infracore, Bengaluru** **January 2024 - Present**

**Full Stack Development Intern - DataDays, Delhi** **August 2023 - December 2023**

- Built and maintained the core API and micro-services of the application using Node.js and Express.
- Researched and implemented verbose Logging on the Backend application, and then seamlessly uploaded the Logs to AWS S3.
- Had the opportunity to learn and understand the business plan of the application, including product description, competition surveys, and development process which employed the Agile Development methodology, software MVP, etc...

**Flutter Developer Intern - Tharasis, Bangalore** **April 2023 - July 2023**

- Designed and maintained their business app, worked on new features and used Mixpanel to implement analytics tracking.
- Performed rigorous app testing and reported flaws using AWS Device Farm.
- Inquired for various 3rd party services on behalf of the company regarding their plans and options.

**Node.js Developer Intern - Forty4Hz, Bangalore** **March 2022 - June 2022**

- Built and maintained several core micro-services written in JavaScript, and frameworks like NodeJS to build backend services (REST APIs) and AWS.
- Researched multiple API Documentation like Google's YouTube Analytics/Data API, Facebook GraphQL API, and LinkedIn API.
- Designed flexible unit tests for every functionality that I added with Jest.

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## ACADEMIC PROJECTS

**Raspberry Pi NetBoot with PXE and NFS** **January 2024 - Present**

**Npmjs package: react-use-latest-state** **November 2023**

- Designed a Npmjs package that addresses an issue while using React's `useState`. Values referenced by `useState` do not get updated inside nested closures and therefore reference older values, which can limit a developer's design architecture and also make debugging difficult.
- The package addresses and implements a solution using React's `useRef`, by simply returning two functions - to retrieve the latest value, and to update the value.

- Designed a website for the KLS GIT Aura 2023 festival with the latest technologies like React, Tailwind CSS, React Refine Framework, and Node.js.
- Used MongoDB as our preferred database, and implemented complicated queries using MongoDB Aggregate functions.
- Implemented Micro-services architecture with Node.js and Express.js, and a clean project structure.
- Constantly tested and debugged the code for errors, along with Continuous Integration and Deployment.
- Website managed and hosted on Amazon Web Services's Elastic Computing.

## **CodeCollab**

**December 2022 - January 2023**

- Built desktop software with Java, which enables programmers to collaboratively contribute to various projects in real time.
- Implemented Socket programming concepts to establish, communicate and serve the project files from the host machine to the client machines.
- Used a customised Diff3 algorithm to automatically resolve merge conflicts on the go.
- Designed a custom and simple protocol for swift communication over the socket.
- Implemented Asynchronous programming using various synchronisation techniques like Locks and Message queues.

## **Flutter package: render\_box\_exposed**

**October 2022**

- Designed a Flutter package to expose a Flutter widget's RenderBox (a RenderBox is a rich class of attributes concerned with a widget's rendering constraints and offsets).
- Documented the code and the package description properly.

## **Archivit**

**September 2022**

- Built and designed a CLI application in Java that can create (with/without encryption), list and extract archives.
- Implemented a simple file structure with magic constants, appropriate headers for every file, and then followed by the binary data.

## **Email Scheduler v2**

**January 2022**

- Built and designed a desktop application with Java's Swing framework which enables end users to schedule and plan their emails on the go.
- Used Google's OAuth 2.0 to gain access to Gmail services, and then automated emails with a background service.