

Saumitra Topinkatti

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Portfolio: <https://saumitra1912.com>

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.

EDUCATION

Bachelor of Engineering in Computer Science	December 2020 - June 2024 (expected)
KLS Gogte Institute of Technology Belgaum	
XII (74 %)	March 2020
Govindram Seksaria Science College Belgaum	
X (72 %)	April 2018
Dnyan Prabodhan Mandir Belgaum	

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

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.

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.