Saumitra Topinkatti

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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.

EDUCATION

Bachelor of Engineering in Computer Science   **December 2020 - May 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, Firebase Firestore, MongoDB, SQLite
Frameworks/Tools: React.js, Node.js, Express.js, Flutter, Visual Studio, Android Studio, Xcode, GitHub
Other: AWS, IntelliJ IDEA, IntelliJ PyCharm, IntelliJ CLion, Data Structures and Algorithms, Debugging and Testing, Figma (UI/UX)

EXPERIENCE

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

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

Part-time 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.

Full-time 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

Npmjs package: react-use-latest-state (React.js)   **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.

Portfolio Website (React.js)   **May 2023 - June 2023**

- Designed a portfolio website using the React.js framework. Implemented a clean design architecture and project structure.
- Prepared a wireframe in Figma to come up with a unique concept and for design efficiency.

Aura 2023 Website (Back-end) (MERN)   **March 2023 - April 2023**

- 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 (Java)   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 (Flutter)   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 (Java)   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.

AuthApp (Node.js)   February 2022 - March 2022

- Designed a simple Node.js back-end that demonstrates how we can leverage Express.js and other libraries to build an authentication system from scratch.
- Used MongoDB as the primary database for storing users.
- Implemented Micro-services architecture and a clean project structure.
- Implemented additional features like Two-factor authentication with Email and SMS-based verification.

Email Scheduler v2 (Java)   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.