

Prajwal Patil

Software Engineer

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EDUCATION

Bachelor of Engineering (B.E.)

Computer Science and Engineering

KLE Technological University, Hubballi

2020 - 2024

9.18 CGPA

EXPERIENCE

Software Development Engineer

Dassault Systemes

June 2024 to Present

Bangalore, India

- Developed and maintained features for **BIOVIA's Scientific Notebook**(ELN) product, a leading solution used by scientists in the **Life Sciences industry** including pharmaceutical, biotechnology and research organizations.
- Built features using **Angular, Java** and **RDF**, supporting scientific research workflows.
- Improved key **performance** metrics, including **Core Web Vitals** (First Contentful Paint, Largest Contentful Paint, and Cumulative Layout Shift), enhancing user experience.
- Collaborated closely with product managers, designers and other engineers to deliver high-quality features.

Software Engineering Intern

Dassault Systemes

January 2024 to June 2024 (6 mos.)

Bangalore, India

- Developed a full-stack **Hiring Management application** from scratch using **Angular, Node.js**, and **MariaDB**.
- The application helped streamline the candidate sourcing, interviewing, and selection processes, increasing hiring efficiency within the company.

Student Developer

Google Summer of Code

April 2022 to August 2022

Remote

- Developed an R package - **VedicDateTime** capable of making accurate **time-series** calculations for luni-solar calendar system.
- Published the developed R package to the Comprehensive R Archive Network(**CRAN**)
- Package was featured in **Time-series view** by CRAN.
- Preferred Candidate** recognition by Google.

PROJECTS

nukeyard - project management kept stupid simple - **demo**

Angular, Tailwind CSS and Supabase

- Built a Kanban-board based project management application from scratch.
- Enabled real-time collaboration with live data sync and enforced role-based access control using route guards and subscriptions.
- Implemented a drag-and-drop module using Angular's CDK to enable task reordering across columns.

Constructivist - personalized ChatGPT

Python, OpenAI API, Transformers and Neo4j

- Implemented personalized chatbot with Piaget's theory, transformers, and prompt engineering.
- Created knowledge base from user-generated data in Neo4j for extensive domain expertise.
- Utilized domain classification for tailored and contextual user interactions.

Silent Sanctum - anonymous social media application

Angular, Node.js, MongoDB, AuthO

- Built dynamic Angular frontend and Node.js backend.
- Integrated AuthO for authentication of users.
- Utilized MongoDB's TTL Index to achieve anonymity of posts and accounts.
- Implemented functionalities to enable anonymous posts, comments and replies.
- Won Best use of MongoDB Atlas award in **MLH's Hackathon**.

Reddit - social media platform

C, Data Structures and Algorithms

- Stored and retrieved data without utilizing a database management system.
- Implemented the functionalities to create posts, comments, upvotes and downvotes, and user accounts.
- Implemented algorithms and data structures for the functionalities.

SKILLS

- Languages** - Javascript, Java, Go, HTML, CSS, Python, C
- Frameworks** - Angular, React, Next.js, EJS
- Databases** - SQL, Neo4j, MariaDB, Postgres, RDF
- Tools** - Git, GitHub
- Libraries** - BeautifulSoup, Spacy

COURSES & CERTIFICATIONS

- Web Developer Bootcamp** by Colt Steele - Udemy.
- C++ Programming - From Beginner to Beyond** - Udemy.

ACHIEVEMENTS

- Winner** - Major League Hacking's Hackbattle: React v/s Angular Hackathon 2023
- First Prize** in **DSA** Course Project - KLE Tech
- Stood **Second** in College level CodeChef Summer Contest - KLE Tech
- Completed 10 tasks in **Google Code-In** 2016.
- Stood **First** in District level **Drawing & Painting** competition.