

RAKSHANA JAYAPRAKASH

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EDUCATION

University of Illinois, Urbana-Champaign

Dec 2023

Master's - Computer Science

Courses: *User Interface Design, Database Systems, Data Mining Principles*

Amrita Vishwa Vidyapeetham, Bangalore

Jul 2021

Bachelor of Technology - Computer Science

GPA: 8.83/10

Courses: *Software Engineering, Cloud Computing, Machine Learning & Data Mining, Natural Language Processing*

EXPERIENCE

TIMAN Labs | University of Illinois, Urbana-Champaign

Oct 2022 - Present

Lead Frontend Developer | [Link to project](#), [Demo Video](#)

- Building a digital library where users can save and share parts of websites to various communities, search over these submissions, and make connections among the submissions. Currently used by over 400 students in UIUC.
- Interpreted requirements, created concept designs and user flows, generated and iterated on prototypes on Figma and developed front-end web UI using React, Next.js, and a server backend (Flask, MongoDB, AWS Opensearch).

Lowe's Companies | Bengaluru, India

Jun 2021 - Jun 2022

Associate Infrastructure Engineer

- Worked on backend API development using reactive programming concepts in Java to parallelize multiple API calls and integrate them into a single service, reducing response times by 70%.
- Developed service using ReactJS, PostgreSQL, Spring boot and implemented Junit testing. Unit tested each module using the Mockito framework, and load tested the RESTful APIs in Apache Jmeter.
- Performed comprehensive analysis on a legacy service and developed UI mockups on Figma for the new service.

Honeywell Technology Solutions | Bengaluru, India

Jan 2021 - Jun 2021

Software Development Intern

- Programmed offline interactive dashboards for multiple products using JS visualisation libraries to highlight KPIs and identify anomalies in the results using HTML, CSS, Javascript.

TECHNICAL SKILLS

Programming Languages

Java, Python, Dart, C, Javascript, HTML, CSS

Databases

MySQL, PostgreSQL, Firebase, MongoDB

Frameworks/Tools

Flutter, ReactJS, Node.js, Android Studio, Spring Boot, Postman, Flask, Figma, Git

PROJECTS

'VoicePals' - UI/UX Design Project | [Demo Video](#), [Prototype](#), [Code](#)

- Developed a social networking app that enables users to reconnect and communicate using voice messages.
- Created wireframes, prototypes, low and high-fidelity mockups in Figma to communicate design ideas and test user flows. Implemented interactive features using event-driven programming techniques in React.js.
- Performed user research, including interviews and usability tests, to inform design decisions & improve user satisfaction. Conducted cognitive walkthroughs to identify and address usability issues in the design.

'Sell That!' - Online Student Marketplace Forum | [Code](#)

- Developed an online platform for college students to buy/sell used goods, ask questions and view lost & found information. Used React.js, Flask to develop website and connected to MySQL database on GCP.
- Created wireframes, prototypes, low and high-fidelity mockups in Figma to communicate design ideas & test user flows.
- Implemented a relational database that included triggers & stored procedures, analyzed and explored different indexing designs to optimize the query performance by 75%.

'Hallo' - Mobile Chat Application | [Code](#)

- Incorporated Agile SDLC principles on an industry project provided by Tata Consultancy Services to build a cross platform mobile chat app using the Flutter framework and Firebase DB. Application included all modern-day functionalities of a chat app - private message, group messaging, user profiles.

LEADERSHIP AND EXTRACURRICULARS

- **Smart India Hackathon:** One of the four finalists in the 2019 national-level hackathon at NIT Trichy.
- **FACE (CS Club):** Led & mentored a team of 20 to organize weekly events as the secretary of the club.
- **TCO18:** 2nd place in TopCoder's UI UX design challenge to design the home screen of a mobile application.