

ARUP CHAUHAN

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EDUCATION

Illinois Institute of Technology, Chicago, Illinois

Aug 2023 - May 2025

Master of Science - Computer Science

Relevant Coursework: Advanced Database Organisation, Information Retrieval, Operating Systems

Dr.A.P.J. Abdul Kalam Technical University, Lucknow, India

Aug 2014 - May 2018

Bachelor of Technology - Computer Science and Engineering - GPA: 3.49

Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Software Engineering

SKILLS

- **Technologies:** C/C++, Python, Java, TypeScript, JavaScript, HTML, CSS
- **Databases** MySQL, Mongo DB, Firebase Realtime DB, Cloud Firestore, Versant Object Database (OODBMS)
- **Platform & Tools:** Git, GitHub, CI/CD(GitHub Actions), Apache Tomcat, JIRA, Freshservice
- **Framework & Libraries:** Node.js, Express.js, Next.js, React, Qt, OpenCV, NumPy, Pandas, Postman, Jest
- **Other:** Competitive Programming, RESTful APIs, Agile Methodologies, Test-Driven Software Engineering, Software Development Life Cycle, Requirement Analysis, Technical Writing

EXPERIENCE

Open Source Developer (TypeScript, Tailwind CSS, Next.js, Firebase, RESTful APIs, Postman)

Jan 2024 - Feb 2024

[FOSS Overflow](#) Knowledge Sharing Platform, Indian Institute of Technology, Bhilai

- Build RESTful APIs to add a content moderation feature to the project, triggering content upload failure if profanity is detected in the uploads.
- Achieve a minimum accuracy rate of 95% in non-context-based and 75% context-based profanity detection, ensuring a high level of content filtering effectiveness.
- Recognized as a key contributor amidst 300+ proposals globally, tasked with project collaboration.

Application Engineer (C++, JavaScript, Java, XML, Versant Object Database, Jest(Testing))

Jul 2018 - Apr 2022

Hindustan Times through Four C Plus (Internet) Co.Ltd., New Delhi

- Developed a C++ Dynamic-Link Library (DLL) for .NET-based desktop applications, optimizing news feed and media asset transfers from content management servers to proprietary digital asset management (DAM) softwares, resulting in a 15% reduction in system resource utilization and increased application uptime.
- Implemented a suite of Java servlets with C++ based .NET library integration to seamlessly ingest XML and image files from news agencies. Achieved a throughput exceeding 95% accuracy and within a maximum latency of 500 milliseconds per file.
- Seamlessly integrated JavaScript based social media functionalities into Swing, a web-based content management. This resulted in a 20% increase in user engagement and a 15% rise in content reach within the first month of implementation.
- Spearheaded IT Service Management tool implementations as subject matter expert, creating workflows and collaborating with vendors on proof of concepts. Validated workflow automation scripts using Jest, resulting in a 20% reduction in resolution times through efficient ticket segregation.

PROJECTS

Image Processing Application (C++, Qt Framework: Qt Core, Qt Widgets)

[Project Link](#)

- Designed an image processing application capable of exporting image data to a text file as a 2D array.
- Incorporated advanced image analysis functionalities including calculating the percentage of dark pixels, determining connected components, and identifying maximum blob areas.

Interactive Pathfinding Algorithm Visualisation Tool (Javascript, React, HTML, CSS)

[Project Link](#)

- Built an interactive web-based application to visualize pathfinding algorithms, Dijkstra's Algorithm, in real-time.
- Allowed user customizable the visualization by adding walls, start and end nodes, and then observing the algorithm's path-finding process step-by-step.

URL Shortner (Mongo DB, Express.js, Node.js)

[Project Link](#)

- Created a URL-shortening application to generate condensed links from long URLs.
- Integrated features such as custom URL generation, click tracking, and URL expiration.