

# Arin Balyan

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## PROFESSIONAL SUMMARY

Software Developer and Full Stack Web Developer with expertise in designing and developing scalable applications using the MERN stack. Proficient in JavaScript, React.js, Node.js, and MongoDB, with strong experience in building RESTful APIs, database management, and backend optimization. Proficient in software development best practices, including data structures, algorithms, and system design.

## EDUCATION

**Bachelor of Technology in Electronic and Communication Engineering** 2022-2026  
*Indian Institute of Information Technology, Manipur* CGPA: 8.20 (up to Semester 5)

## TECHNICAL SKILLS

- **Programming Languages:** JavaScript, Python, C/C++, Java, TypeScript
- **Frontend:** HTML5, CSS3, JavaScript (ES6+), React.js, Bootstrap, Tailwind CSS, Responsive Design
- **Backend:** Node.js, Express.js, REST APIs, Authentication/Authorization, WebSockets
- **Databases:** MongoDB, MySQL, PostgreSQL, Database Design, SQL/NoSQL
- **DevOps & Tools:** Git, GitHub, VS Code, npm
- **Key Courses:** Object-Oriented Programming, Artificial Intelligence, Machine Learning, Data Structures and Algorithms

## PROFESSIONAL EXPERIENCE

**Ethical Hacking and Penetration Testing - Virtual Internship** December 2024 - January 2025  
*Centre for Development of Advanced Computing (C-DAC), Noida* Online

- Executed penetration testing techniques, identifying and mitigating 20+ security vulnerabilities
- Built automated scripts to streamline vulnerability assessments, improving efficiency by 30%
- Analyzed real-world cyber threats and strengthened web application security using OWASP Top 10 principles

## PROJECTS

**Rubik's Cube Solver - Korf's IDA\* Algorithm** Dec 2024 - Feb 2025  GitHub  
*Algorithmic Problem-Solving and Optimization*

- Achieved a solving time of under 3 seconds for a Rubik's Cube jumbled 8 times, using BFS, DFS, and IDDFS algorithms.
- Achieved a solving time of under 10 seconds for a Rubik's Cube jumbled 13 times, using Korf's IDA\* Algorithm.

**Internshala Internship Application Automation** April-May 2025  GitHub  
*Personal Project | Node.js, Puppeteer, Google Gemini API, MongoDB, PDF Parsing*

- Engineered a browser automation system using **Puppeteer** with **Stealth plugin** to automatically apply for internships on Internshala, mimicking human interactions.
- Integrated **Google Gemini API** for dynamic content generation (cover letters, "Why Hire Me" responses) and utilized **pdfreader** for programmatic resume content extraction.
- Automated login, resume upload, dynamic question filling, and form submission across multiple listings, significantly reducing manual effort by **over 90%** and integrating **MongoDB** for submission tracking.

## CERTIFICATIONS & LEADERSHIP

- **NPTEL Certification** - The Joy of Computing Using Python (Jul - Oct 2024) | Scored 94/100
- **Ahouba 2.0** | Ranked third place in competitive programming in Techfest
- **CodeChef** | 3-Star at CodeChef and 1001 at Codeforces
- **Web Development Bootcamp** - Udemy (Mar 2024) | 65-hour comprehensive training
- **Team Lead - Smart India Hackathon 2024** | Led a team of 6 developers using Agile methodology
- **Competitive Programming** | Solved 400+ problems on LeetCode, HackerRank, CodeChef, and Codeforces

## ADDITIONAL INFORMATION

- **Soft Skills:** Team Leadership, Communication
- **Expertise:** Full Stack Development and Software Development