

ATHARVA KARVAL

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Education

Marathwada Mitra Mandal's College of Engineering

Pune, India

Bachelor of Engineering in Computer Engineering; CGPA: 8.81/10.0

Aug 2022 – May 2026

- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Systems, Computer Networks, Software Engineering
- Technical Activities: Solved 100+ DSA problems on LeetCode/CodeForces, participated in 5+ hackathons, active in College Coding Competitions.

Experience

Software Development Engineering Intern

Jun 2025 – Present

Kahani Technologies Pvt. Ltd.

Pune, India

- Engineered responsive web applications using C# MVC architecture, improving user engagement by 35%
- Optimized front-end components with JavaScript, jQuery, and CSS, reducing page load time by 40%
- Crafted efficient SQL queries for data retrieval, improving application response time by 25%
- Collaborated with cross-functional teams using Agile methodologies to deliver 3 major feature releases

Project Intern - Production Optimization

Jan 2025 – Feb 2025

AkzoNobel

Thane, India

- Architected Python-based sequencing algorithms that optimized production scheduling by 30%
- Integrated real-time SAP data for resource allocation, reducing planning time by 50%
- Built data visualization dashboards using Power BI, enabling stakeholders to track KPIs
- Received "Outstanding Intern" recognition for exceptional technical contributions

Team Leader - Software Bug Detection Project

Feb 2025 – Apr 2025

Intel Unnati Industrial Training Program

Pune, India

- Led 5-member team in creating NLP and rule-based static analysis tools that detected 95% of code anomalies
- Deployed ML-based repair suggestions using Python and TensorFlow, reducing debugging time by 40%
- Architected scalable microservices that processed 10,000+ lines of code per minute
- Project selected for Intel Innovation Showcase 2025 for practical industry applications

Software Development Intern

Mar 2025 – Apr 2025

Xtreme Engineering Equipments Pvt. Ltd.

Pune, India

- Built a .NET-based industrial automation application with C# that reduced manual monitoring by 75%
- Established multithreaded architecture for real-time data processing and alerts, handling 200+ concurrent processes
- Created responsive UI with WPF that improved operator efficiency by 30% through intuitive dashboard design
- Collaborated in Agile environment with daily standups to deliver project 2 weeks ahead of schedule

Projects

MatchMentor - Campus Event Platform | TypeScript, React, MongoDB, Firebase, WebSockets |

Apr 2025

- Architected real-time mentor matchmaking platform with 99.9% uptime using WebSockets and MongoDB
- Established secure authentication system using JWT and Firebase, handling 500+ concurrent users
- Won Sponsor's Choice Award at HackSprint 2025 among 50+ competing teams for innovative solution

Nectar - AI Agricultural Assistant | React Native, TensorFlow, Node.js, MySQL, RESTful APIs |

Dec 2024

- Engineered AI-powered mobile app achieving 92% accuracy in plant disease detection using MobileNet V2 architecture
- Constructed RESTful API architecture handling 100+ requests/minute with Node.js backend
- Internal Round Winner at Smart India Hackathon 2024; integrated disease detection, NLP chatbots, and multilingual forums

Bitcoin Analysis & Simulation Platform | Python, Machine Learning, Streamlit, Flask |

June 2025

- Built trading strategy modules (EMA, RSI, consensus) with backtesting support.
- Enabled real-time signals via live feeds for actionable decisions.
- Streamlit + Plotly dashboards with sentiment, volatility overlays, and resistance zones.

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, C#, Java, SQL, HTML/CSS
Data Structures & Algorithms: Arrays, Linked Lists, Trees, Graphs, Dynamic Programming, Sorting Algorithms
Front-End Development: React.js, Redux, Bootstrap, Tailwind CSS, jQuery, Responsive Design
Back-End Development: Node.js, Express.js, .NET MVC, RESTful APIs, Microservices
Database Management: MongoDB, MySQL, PostgreSQL, Firebase, SQL Server, NoSQL
DevOps & Cloud: Git, GitHub, Docker, AWS (EC2, S3, Lambda), CI/CD, Kubernetes
Software Development: Agile, SDLC, OOP, Design Patterns, Unit Testing, TDD

Certifications & Additional Skills

AWS Certified Developer - Associate
Amazon Web Services

2025
[Badge Link](#)

- Proficient in AWS services including Lambda, EC2, S3, DynamoDB, and API Gateway

Advanced Software Engineering Certifications
Various Platforms

2025

- Microservices Architecture with Node.js and React (Udemy)
- Python for Data Science, AI & Development - IBM (Coursera)
- Python for Everybody Specialization - University of Michigan (Coursera)

MongoDB Certifications
MongoDB University

2025
[Badge Link](#)

- MongoDB for Developers, Database Design, Performance Optimization
- Building GenAI Applications, RAG Apps, AI-Powered Search with Vector Search

Achievements
Various Competitions

2024-2025
India

- Winner – Sponsor’s Choice Award, HackSprint 2025 (April 2025)
- 2nd Place – CodeBid Hackathon, Cummins College of Engineering (April 2025)
- Internal Round Winner – Smart India Hackathon 2024 (December 2024)
- Merit Rank – Synapse 1.0 ML Hackathon (AICVS & GDSC Cummins) (March 2024)
- All India Rank 1886 – Naukri Campus Aptitude Test 2025 (May 2025)