

# Sarthak Deshmukh

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## SUMMARY

**Software Engineer Intern Candidate** with **3+ years** of experience developing scalable, high-performance systems using **Python, C++, and C#**. Strong foundation in **distributed systems, algorithms, object-oriented design, and data structures**. Experienced in building automation solutions and backend infrastructure across cloud platforms like **AWS, Azure, and GCP**. Passionate about robotics, optimization, and problem solving in fast-paced, research-driven environments.

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, C#, JavaScript (ES6+)

**Frameworks & Libraries:** React, Redux, Node.js, Express, Material-UI, .NET Core

**Cloud & DevOps:** AWS (EC2, S3, IAM), Terraform, GitHub Actions, CI/CD, Docker

**Concepts:** Object-Oriented Programming, Data Structures, Algorithms, REST APIs, SDLC, Agile

**Certifications:** Azure Developer Associate, Azure Fundamentals, Microsoft Certified Professional

## EXPERIENCE

### Full Stack Developer

Jun 2021 – Jul 2024

Accenture

Mumbai, India

- Developed scalable **GenAI** chatbot using **Python, C#, .NET Core, React** with **Azure DevOps CI/CD** and **MySQL** integration.
- Built multi-tier systems using **object-oriented principles** and **distributed computing** techniques to ensure fault-tolerant production deployments.
- Optimized API response times through **algorithmic improvements** and **query optimization**, reducing latency for real-time user interactions.
- Enhanced **Microsoft Bot Framework** dialog flow and intent classification using **Cognitive Services**, achieving **10% latency reduction** and improved accessibility.

### Software Engineer Intern

Jul 2020 – Mar 2021

IT Networkz Infosystems

Nagpur, India

- Developed scalable web applications using **Java and React** with APIs for optimized performance.
- Built UI components with **React and TypeScript**, implementing **Hooks and HOCs** while minimizing prop drilling.
- Engineered secure **RESTful APIs** using **Express.js, Node.js, and MySQL**, deployed on **AWS EC2** with **RDS**.
- Accelerated deployment speed by **40%** implementing **CI/CD pipelines** with **GitHub Actions** and **AWS CLI**.

## PROJECTS

### Semantic Browsing History Chrome Extension 🧩 | Python, Google Cloud Run, Docker, Pinecone

May 2025

- Built semantic browser search agent using **natural language queries** and stored data semantically in **PostgreSQL**.
- Deployed scalable **Flask API** on **Google Cloud Run** with **Docker** and **Artifact Registry** integration.
- Integrated **Gemini GenAI** for webscraping and **Pinecone** vector DB with **Next.js** UI for low-latency search.

### Personal Photo Gallery 🧩 | Node.js, Google Cloud Run, Firestore, Material UI

Apr 2025

- Built personal gallery app using **React, Node.js, Express, Material UI, shadcn/ui** for photo management
- Stored photo metadata in **Firestore** and images in **Google Cloud Storage** for scalable cloud-based storage.
- Implemented **date-time sorting** and display features to organize photos chronologically.
- Deployed frontend on **Google App Engine** and backend on **Google Cloud Run**, automated via **GitHub Actions**.

### AI Course Advisor 🧩 | GitHub 🧩 | React, Node, TypeScript, Redux

Nov 2024 – Dec 2024

- Built AI course advisor using **React, Node.js, Express** and **Llama-70b via Groq API** for smart recommendations.
- Implemented secure **JWT** authentication with HTTP-only cookies for session management and user protection.
- Used **Redux** to manage global state, monitor user activity, and dynamically update course suggestions in real time.
- Deployed the application UI on **Vercel** and server on **Railway**.

## EDUCATION

### Northeastern University

Master of Science in Information Systems

### Nagpur University

Bachelor of Engineering in Computer Science

Boston, MA

Sep 2024 – Dec 2026

Nagpur, India

Aug 2017 – Apr 2021