

TUSHAR SACHAN

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Education

Arizona State University

Bachelor of Computer Engineering

Expected Graduation: May 2026

Tempe

- GPA: 4.0

Technical Skills

Languages: Python, Java, SQL, HTML5, CSS, JavaScript, TypeScript

Developer Tools: AWS, Postman, Django, Git, Azure, Docker

Libraries/Frameworks: Spring Boot, ExpressJS, NodeJS, MongoDB, PostgreSQL, NextJS, ReactJS, ThreeJS

Work Experience

SS Transways

May 2025 – Aug 2025

Software Engineer Intern

Remote

- Built and deployed a cross-platform attendance app with **React Native**, **Node.js**, and **Firebase**, enabling 400+ drivers and supervisors to log shifts, reducing payroll discrepancies by **25%** and cut administrative time by 10 hours/week.
- Developed a web dashboard using **React**, **Express.js**, and **MySQL**, deployed on **AWS EC2** with **Nginx**, giving managers real-time access to attendance, saving an estimated **\$50K** annually by reducing overtime disputes.
- Streamlined compliance tracking by integrating **S3 storage** and **CRON jobs** to automate reminders, reducing administrative overhead costs by **20%**, while ensuring audit readiness and regulatory compliance.

Department Of Physics

April 2023 – present

Backend Engineer

ASU

- Built and deployed a space/asset management system with **SQL**, **Node.js**, **Express**, and **AWS EC2**, used by 50+ staff to support 1,000+ students, saving the department **\$10K+** annually.
- Created **RESTful APIs** with **Express** on a secure **MongoDB** backend to streamline reporting and workflows, cutting manual admin work by **40%**.
- Engineered a Chrome extension with **OpenAI API** integration to consume internal responses, enabling front-desk staff to handle queries, scheduling, and visitor support with higher accuracy.

Ford

May 2024 – Aug 2024

Software Engineer Intern

Remote

- Reduced API response latency by **40%** by refactoring legacy endpoints into **microservices** using **Java + Spring Boot** and introducing asynchronous processing, enabling fleet and commercial services to improve system throughput.
- Improved deployment efficiency by automating backend service rollouts using **Docker** and **Kubernetes** on Ford's **cloud** platform, which reduced manual errors and sped up release cycles by **20%**.

Projects

Indian Student Association | Website | Source Code

ReactJS | Express | Firebase

- Developed a scalable event registration and e-commerce platform using **Next.js**, **Tailwind CSS**, and **Vercel** serverless functions, enabling **1,000+** students to register and purchase merchandise, generating over **\$15,000** in club revenue.
- Implemented API integrations with **Node.js** and serverless functions, leveraging **optimized caching** and **SSR** to achieve a **55%** increase in user engagement metrics.

MenuMaven | Source code

ReactJS | JavaScript | PostgreSQL

- Developed an AI-powered meal planning app using **React**, **Express**, and **PostgreSQL**, integrating **AWS Rekognition** for **OCR** and **AWS Lambda** for scalable analysis, helping users cut costs by **30%** through meal recommendations.

Leadership

Winner, MIX Center Hackathon

Jan 2024

- Built WebAR campus tour using **+8th Wall engine**, **Three.js**, and **WebGL**, enabling QR-triggered NPC chatbots; adoption could cut tour staffing costs by **60%**.