

# Gaurav Khandekar

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## SKILLS

**Programming Languages:** Python, Java ,React JS, Node JS, Express.js

**Tools:** Jupyter, VSCode, Git , GitHub, Azure, MS Word, MS Excel., AI — TensorFlow, Scikit-learn, BERT, BiLSTM, Dialogflow

**Technologies domain Skills:** Data structure, Algorithms, LLM, ML, AWS, Docker, Apache, Kubernetes, CI/CD pipelines, Agile , Postman, REST API ,Project Management ,Spring boot, SDLC

## EXPERIENCE

**Software Engineer Intern**, BOW – Redmond, WA

Jun 2025 – Present

- Architected and deployed a **cloud-native distributed system** leveraging **AWS Amplify, ECS, Lambda (serverless), S3 buckets, DynamoDB, SQS, and caching strategies**, ensuring **99.9% uptime and scalability for 50,000+ active users**.
- Configured Application Load Balancer (ALB) with **Lambda** and **API Gateway**, integrated with **CloudFormation (stack policies, Lambda stack deletion handling)**, **CloudTrail**, and **CloudWatch** for automated infrastructure provisioning, governance, monitoring, and compliance, enabling automatic **horizontal scaling, low-latency performance, fault-tolerance**, and reducing response times by **30%** under peak traffic. Established end-to-end **CI/CD automation** using **AWS CodePipeline** integrated with **GitHub Actions**, cutting manual deployment time by **40%** and ensuring seamless.
- Designed and deployed distributed **content management workflows** for admin/member portals, event scheduling, and **newsletter integration**, utilizing **asynchronous messaging queues and in-memory caching** to guarantee reliable, low-downtime delivery during high-traffic events.
- Developed secure **RESTful APIs** with **Node.js Express.js** in backend and led frontend architecture using **React.js, Tailwind CSS, and Framer Motion**, integrating **Stripe payments and Google Sign-In authentication**, while reducing page load times by **30%** and improving mobile user satisfaction by **25%** for the Beats of Washington platform.
- Implemented multi-layered security with **Google OAuth, AWS Cognito JWT verification, and Role-Based Access Control (RBAC)** for Admin/Member roles, ensuring secure authentication, **authorized access**, and protection against **vulnerabilities**.

**Full-Stack Developer** ,Elite Softwares – Pune, India

Nov 2022 – Feb 2024

- Built and optimized responsive full-stack applications with **React.js** and **Node.js**, boosting UI performance by **25%** and improving user engagement. Collaborated with data engineers to **integrate predictive analytics (Python, Scikit-learn)** for retention strategies. Implemented **CI/CD pipelines** using **Jenkins and GitHub Actions** to automate **build and deployment processes**.
- Formulated and integrated **RESTful APIs** with third-party services (including **Stripe and Razorpay**), enabling secure online transactions and reducing **API failure rates by 20%**.
- Executed security best practices such as input validation, **authentication/authorization controls**, and **HTTPS/TLS enforcement**, strengthening application resilience against common **vulnerabilities**.
- Conducted unit testing, **debugging**, and **code reviews**, improving release quality and increasing team delivery velocity by **15%**.

## CERTIFICATES

ProjectLead Web (the Navigator) - International Journal of Scientific & Engineering Research

## ACADEMIC PROJECTS

**HomeSpace - an application to find homes on rent**

March 2024

- Built a **Django-based** web app with **ML-driven** property ranking and price prediction using **Scikit-learn Pandas**, improving search relevance by **35%**. Automated listing uploads, roommate matching, and map-based property discovery via **geospatial integration**.

**The Navigator**

May 2022

- built a **React + Java** using computer vision multimodal data fusion for real-time video-based navigation.application providingvideographic directions for unfamiliar environments, improving user wayfinding efficiency by **40%**.Applied machine perception and **multimodal data integration** for enhanced human–environment interaction.

**Detection of Offensive Text Content**

march 2022

- Engineered and trained 5 **deep learning models** for multilingual (English/Hindi) offensive content detection. Achieved **92%** classification accuracy using **BERT and BiLSTM for NLP**, demonstrating strong understanding of **AI ethics content moderation**.NLP preprocessing, tokenization, and **bias mitigation** for ethical **AI moderation**.

## EDUCATION

**Seattle university**, MS in Computer Science

aug 2024 – March 2026

- Coursework:** Software Engineering, Artificial Intelligence, software architecture, Computer Networks, Cloud Computing

**Lovely Professional University**, B-Tech in Computer Science

aug 2018 – May 2022

- Coursework:** Data structure Algorithms, DBMS ,Artificial Intelligence, Object Oriented programming, Operating System.