Gaurav Khandekar

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EDUCATION

Seattle university, MS in Computer Science — aug 2024 – May 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 and Algorithms, DBMS ,Artificial Intelligence, Object Oriented programming, Operating System.

EXPERIENCE

| Software Engineer Intern, *BOW – Redmond, WA* — Jun 2025 – Sep 2025
- 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** , **CloudTrail**, and **CloudWatch** for automated infrastructure provisioning, 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%**
- Designed and deployed distributed **content management workflows** for admin/member portals, event scheduling, and **newsletter integration**, utilizing **concurrency**, **synchronization**, and **event-driven** 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%.**

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 ethicscontent** moderation.NLP preprocessing, tokenization, and **bias mitigation** for ethical **AI moderation.**

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

CERTIFICATES

Project Lead (The Navigator) — Published in *International Journal of Scientific & Engineering Research*