Gaurav Khandekar

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https://gauravkhandekar-github-io.vercel.app/

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 Developer , *Sam's Tavern – Seattle, WA*   Dec 2025 – Jan 2026

- Built a **full-stack**, **cloud-native** liquor inventory system using **React.js** and **Node.js/Express.js,** enabling shift-level, **movement-based** tracking across **1000+** liquor items, replacing manual inventory counts and improving **accuracy.**
- Developed secure **RESTful** backend services with **API Gateway**, integrated **AWS Cognito (JWT authentication)** and **role-based access control** (RBAC), implemented **QR code–based** bottle checkout **workflows,paginated** inventory and designed **AWS DynamoDB** data models for inventory, movements, and **audit logs**, reducing **reconciliation errors by 30%.**
- Deployed and operated production workloads on **AWS** using **CloudFront** and **CloudWatch**, achieving **99.9%** uptime and **low latency**, built **movement-based prediction** and **reporting dashboards**, automated deployments with **PowerShell** and **Bash,** reduced manual release effort by **40%,** minimized stockouts, and drove adoption across **50+ staff** via role-specific dashboards.

| 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, DynamoDB, SQS,** and **caching strategies**, achieving **99.9%** uptime and scalable performance for **50,000+** active users.
- Configured **ALB, API Gateway**, **CloudFormation, CloudTrail,** and **CloudWatch** for automated infrastructure provisioning, monitoring, **horizontal scaling, low-latency** performance, and **fault-tolerance**, while implementing **CI/CD pipelines** with **AWS CodePipeline** + GitHub Actions, reducing manual deployment time by **40%.**
- Designed and deployed distributed content management workflows for admin and member portals, **event scheduling**, and **newsletters**, leveraging **concurrency, synchronization, event-driven architecture**, and **in-memory** caching to support **10k+** concurrent users, sub-second response times, and reliable **low-downtime** delivery.
- Developed secure **RESTful APIs** with **Node.js/Express.js**, led frontend architecture using **React.js, Tailwind CSS**, Framer Motion, integrated **Stripe payments** and **e-commerce**, and implemented multi-layered security with **Google OAuth**, **AWS Cognito (JWT), RBAC**, and **CSP**, improving page load times by **30%** and mobile user satisfaction by **25%.**

| 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

AI-powered On-Call Engineer   Jan 2026

- Built an AI-powered On-Call Engineer using **Node.js, Node.js/Express** and **React** with **LLM-based** analysis to automate incident triage by correlating logs, stack traces, and metrics, generating root-cause summaries and reducing MTTR by **40%.**
- Applied multimodal observability data fusion and retrieval-**augmented reasoning** for efficient debugging in cloud-native systems.

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.**

SKILLS

Languages and Frameworks: Python, Java, TypeScript, React js, Node js, Express.js

Tools: Git, GitHub, Firebase, Postman, Matplotlib, Pandas, Visual Studio, VS Code, Jira, AI — TensorFlow, Scikit-learn, OpenAI API.

Technologies Skills: DSA, LLM, ML, AWS, CI/CD pipelines, Agile , Postman, REST API ,Project Management ,Spring boot, SDLC