Anshul Joshi

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Professional Summary

Senior Software Engineer with 5+ years of experience designing scalable backend architectures, microservices, and AI-powered systems using Node.js, Python, AWS, and GraphQL. Proven track record in leading system refactors, optimizing DevOps pipelines, and deploying ML integrations with AWS Bedrock. Adept at mentoring teams, driving automation, and delivering impactful business outcomes.

Skills

Languages: Python,Javascript(ES6+), Typescript
Frameworks & Tools: NodeJS, ExpressJS, NestJS, React, Angular, Flask, Django, GraphQL, TensorFlow, ONNX, Playwright
Databases: DynamoDB, MongoDB, Postgres, Redis
Cloud & Devops: AWS (ECS, S3, CloudFormation, CloudWatch, Bedrock), Docker, CI/CD (Jenkins & Github Actions), Nginx
System Design & Performance: Scalable APIs, Microservices, Event-Driven Architecture, OAuth, API Security, Serverless Architecture, AI/ML Integrations, GenAI

Experience

Sr Software Engineer, (RBC Royal Bank of Canada, client through TechMahindra) – Toronto, ON   Nov 2023 – Present
- Defined logical and conceptual architecture for next-gen platforms, designing system context and data flow diagrams to align microservices with event-driven communication patterns.
- Engineered a scalable data archival system using a recursive Playwright scraper and AWS Bedrock for AI-driven summarization, enhancing accessibility of unstructured internal data.
- Built a data pipeline leveraging NVIDIA NV Ingest to extract and embed unstructured data, enabling downstream automation workflows and foundational LLM-based chatbot capabilities.
- Integrated custom LLMs with AWS Bedrock to automate ticketing workflows, enhance semantic search, and deploy chatbot capabilities across internal tooling.
- Assisted with onboarding, pair-programming sessions for interns & juniors, improving collaboration & delivery quality.

Software Engineer, (RBC Royal Bank of Canada, client through Equality Street Inc) – Toronto, ON   Jan 2023 – Oct 2023
- Refactored legacy Express/Flask services into modular NestJS microservices and optimized DynamoDB with indexing and sharding, improving scalability and reducing query latency by 40%.
- Conducted A/B testing to evaluate CI/CD performance, leading to migration from Jenkins to GitHub Actions and achieving a 30% improvement in pipeline efficiency.
- Authored technical documentation and onboarding guides while leading reusable UI component development, streamlining feature delivery and improving design consistency.

Software Developer, GoCo by Telus – Toronto, ON   Jan 2021 – Jan 2023
- Implemented Django CRUD APIs for network provisioning & user account management.
- Developed scalable Django REST APIs and integrated them with AngularJS to expand product functionality.
- Led infrastructure upgrades and internationalization efforts, increasing adoption by 30%.

Software Engineer Intern, Affichi Inc. – Nanaimo, BC   Jan 2020 – Dec 2020
- Built, deployed e-commerce websites,enabling clients to establish online presence, streamline customer transactions.

Freelance Developer, Freelance Developer – Nanaimo, BC (AKJanitorial.ca)   Oct 2019 – Apr 2020
- Built, deployed e-commerce websites to secure more leads. for local businesses using React, Node.js, and Flask

Education

Vancouver Island University – BSc. in Computing Science   May 2021