Anadi Aakar Dewan

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Education

Arizona State University	Aug 2024 - May 2026
Master of Science in Software Engineering (GPA: 4.0)	Tempe, AZ
SRM Institute of Science and Technologies	Aug 2016 - May 2020
Bachelor of Technology in Computer Science	Chennai, India

Experience

SMS Group — May 2025 - Aug 2025
Software Development Intern — Pittsburgh, PA

- Delivered scalable **React + C# micro-features on Azure/Kubernetes**, improving UI responsiveness by API-to-UI latency reduction and reducing production defects.
- Served as **DRI**, monitoring live deployments, resolving incidents, and sustaining stability during high-load manufacturing windows.
- Translated ambiguous specifications into clear workflows and maintainable backend logic, reducing rework cycles.

Revmax Technologies — Feb 2024 - Aug 2024
Backend Software Development Engineer — Delhi, India

- Improved mobile-service performance by engineering **Kafka + Redis + PostgreSQL** pipelines, reducing API latency.
- Refactored monolithic query paths into modular components, accelerating feature delivery and improving maintainability.

AFOUR Technologies — Sept 2022 - Feb 2024
Web Development Engineer — Mumbai, India

- Built **PySpark data pipelines** to centralize analytics data, improving reliability and observability.
- Containerized and deployed workloads across cloud environments, unifying build/deployment practices.
- Optimized Snowflake compute utilization, reducing cost while improving dashboard performance.

VVDN Technologies — July 2020 - Aug 2022
Web Development Engineer — Gurugram, India

- Built secure React admin panels with RabbitMQ/WebSockets for real-time device monitoring.
- Mentored junior engineers, improving code quality and debugging efficiency.

Teaching Experience - Arizona State University — Aug 2025 - Present
Intro to Programming (Scheme, Prolog), Computer Networks, Data Science (PG), Intro to Java — Tempe, AZ

- Supported 100+ students across four courses, explaining concepts in Python, Scheme, Prolog, Java, ML foundations, and networking protocols.
- Led office hours and debugging sessions, improving student assignment performance and conceptual clarity.
- Graded programming projects and provided structured feedback focused on correctness, style, and problem-solving best practices.

Technical Skills

FrontEnd:React, JavaScript, HTML/CSS, REST APIs, WebSockets, TypeScript
Backend: Java, Python, Django, Flask, Kafka, Redis, PostgreSQL
ML: BERT, ResNet, SHAP, Grad-CAM
Systems & Cloud: Docker, Kubernetes, Azure, Snowflake, EC2, lambda
Tools: Kafka, Git, Faust (Automation), Pyspark, redisQueue, Postman

Relevant Projects

Multimodal Fake Job Posting Classifier (AI + Systems) — Aug 2025 – Dec 2025

- Built a multimodal fraud detector combining BERT text embeddings, ResNet-50 image features, and metadata fusion strategies.
- Achieved ROC-AUC $\approx$ 0.99 with conditional fusion; robust to missing images.
- Implemented a full XAI pipeline (SHAP, Grad-CAM, Integrated Gradients) for interpretable predictions.

CS+ ASU Club — Aug 2024 – Mar 2025

- Led a team of 12 to deliver a scalable job board platform, clarifying requirements and aligning features (newsletters, events, job postings) with user needs and business goals.
- Designed REST APIs and optimized query flows to ensure responsive UI/UX and reliable performance.