

KRITAN TAMRAKAR

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EDUCATION

SHERIDAN COLLEGE INSTITUTE OF TECHNOLOGY AND ADVANCED LEARNING

Advanced Diploma in CST - Software Engineering

Dean's List, Honors

Relevant Coursework: Web Development, Software Engineering, Operating Systems, Algorithms, Artificial Intelligence

Oakville, ON

June 2024

TRIBHUVAN UNIVERSITY

Bachelor's of Science in Computer Science and Information Technology

Pokhara, Nepal

Dec 2022

WORK EXPERIENCE

Headstarter AI

Software Engineer Fellowship

Remote

May 2024 – Dec 2024

- Architected a microservices-based backend system using Node.js and Express, improving API performance by 35%.
- Built and deployed 3 ML models using Azure ML and querying, improving predictive accuracy by 15%.
- Assisted with CI/CD pipeline troubleshooting and cloud resource allocation across Azure environments.

Prodigy Infotech

Software Developer Intern

Remote

Feb 2024 – May 2024

- Documented 20+ features and fixes via GitHub issues and PRs to streamline collaboration, reducing team debugging time.
- Actively participated in Agile sprints, contributing to daily stand-ups, sprint planning, and retrospective meetings.
- Resolved 95% of support tickets within SLA using JIRA, streamlining issue tracking and enhancing response efficiency.
- Applied Entity Framework to enforce data integrity and relationships within the database, improving data reliability.

VEDA (Ingrails) (10 employee based venture startup prioritizing online education through CMS)

Software Developer Intern

Kathmandu, Nepal

Jan 2022 – Aug 2022

- Architected a microservices-based backend system using Spring MVC and Node.js, improving API performance by 35%.
- Conducted testing using Selenium and Junit, identifying, and documenting 8-10 defects in web application functionalities.
- Spearheaded in development of a React dashboard deployed on AWS, boosting user engagement by 2 times the amount.
- Assisted in containerizing modules using Docker and supported internal deployments for streamlined development & testing.

PROJECTS

AI-Powered Fraud Detection System (Headstarter AI Engaged)

- Built and fine-tuned multiple ML and DL models at Headstarter AI using Scikit-Learn and TensorFlow in Azure ML.
- Enhanced model interpretability with SHAP and LIME, providing detailed insights into feature importance.

Random Talk - Small Real-time Chat Application

- Designed a real-time messaging platform, achieving 99% uptime and supporting 1K concurrent users with React/Tailwind.
- Reduced message delivery latency by 30% with optimized WebSocket connections, and enabling normalizations in MySQL.

ACTIVITIES

AMAZON WEB SERVICES COMMUNITY TALENT

Community Talent Member

Dec 2023 – Present

- Actively committed to the AWS Emerging Talent Community, contributing to a 15% personal proficiency gain in AWS services.
- Recognized for valuable forum contributions, earning an increase in reputation points within AWS ETC.

ADDITIONAL

Programming Languages: Python, JavaScript, Java, C++, TypeScript, C#, HTML/CSS, PHP, TypeScript

Frameworks and Tools: React.js, Spring/MVC, Node.js, ASP.NET, Microsoft Active Directory, Docker, PostgreSQL, AWS, UNIX, maven, .NET (Core & Framework)

Concepts: Microservices Architecture, RESTful APIs, CI/CD, ML, Agile & Scrum Development, Git/Github, OOD

Certifications & Training: Algorithms: Design and Analysis (Stanford Online), Become a Full Stack Developer (LinkedIn), AWS

Certified Developer - Associate (In-Progress), Data Fundamentals - IBM SkillsBuild