

KRITAN TAMRAKAR

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EDUCATION

SHERIDAN COLLEGE INSTITUTE OF TECHNOLOGY AND ADVANCED LEARNING

Oakville, ON

Advanced Diploma in CST - Software Engineering

June 2024

Cumulative GPA: 3.60/4.0; Dean's List, Honors

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

TRIBHUVAN UNIVERSITY

Pokhara, Nepal

Bachelor's of Science in Computer Science and Information Technology

Dec 2022

WORK EXPERIENCE

Headstarter AI

Remote

Software Engineer Fellowship

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 MySQL data and querying, improving predictive accuracy by 15%.
- Collaborated for migration to a microservices architecture, streamlining deployment and reducing deployment times.

Prodigy Infotech

Remote

Software Developer Intern

Feb 2024 – May 2024

- Created thorough documentation of new features in Git and fixes to improve knowledge sharing and project understanding.
- Implemented security best practices and protocols in API development, ensuring data protection and integrity.
- Resolved 95% of support tickets within SLA using JIRA, streamlining issue tracking and enhancing response efficiency.
- Reduced API response time by ~20% and improved endpoint stability by resolving critical bugs in UNIX-based systems.

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

Kathmandu, Nepal

Software Developer Intern

Jan 2022 – Aug 2022

- Architected a microservices-based backend system using Spring MVC and Express, improving API performance by 35%.
- Implemented automated unit testing using Jest, increasing code coverage by 30% and reducing production bugs.
- Spearheaded in development of a Vue & 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.

XCommerce - Small Ecommerce Demo Application

- Designed a real-time messaging platform, achieving 99.5% uptime and supporting over 1000 concurrent users with PHP.
- 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

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

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)