

Tarun Chawla

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SUMMARY

Experienced **Backend Engineer** with 4 years of expertise in **Python**, **SQL**, and **microservices architecture**. Strong background in implementing **LLM-powered applications** and **data retrieval systems**. Proven track record in optimizing system performance and contributing to open-source projects.

WORK EXPERIENCE

QRev AI

March 2024 – Present

Founding Software Engineer

Remote

- Engineered a SaaS product using **React**, **TypeScript**, and **NextJS** with advanced animations, enhancing user engagement and achieving **20% faster load times**.
- Developed and maintained APIs using **NodeJS** and **Python**, leveraging LLMs to automate marketing workflows, resulting in a **40% reduction in manual tasks**.
- Implemented secure deployment pipelines with **AWS**, **Docker**, and **CI/CD**, ensuring **99.99% uptime** and supporting scalable infrastructure for high-traffic applications.
- Led troubleshooting and optimization efforts, improving system performance by **25%** through proactive identification of performance bottlenecks and enhanced error logging.

MindsDB

Jun 2023 – March 2024

OSS Maintainer

Part-time, Remote

- Developed and tested **LLM integrations** with Slack, and WhatsApp, implementing robust **Python** backends and **SQL** interfaces.
- Led comprehensive integration testing efforts across multiple database handlers and AI providers, ensuring reliability and compatibility of new features.
- Provided technical support and troubleshooting guidance to community members in Slack, resolving integration issues and improving documentation based on user feedback.

BermTec, Inc

August 2023 – December 2023

DevOps Engineer

New York, NY

- Architected and deployed a **multi-cloud Kubernetes infrastructure**, reducing operational costs by **30%** and improving system resiliency with auto-scaling capabilities.
- Automated cloud infrastructure with **Terraform** and **CI/CD** pipelines, resulting in a **50% reduction in deployment times** and improved overall system security.
- Conducted performance optimizations for high-load systems, resulting in a **20% improvement** in response times during peak traffic periods.

Truvisory

July 2020 – July 2021

Intern, Software Developer

Mumbai, India

- Developed and deployed 5+ web applications using **ReactJS** and **Angular**, reducing bounce rates by **20%** and improving user engagement.
- Led integration of agile development practices, facilitating a **25% improvement in feature delivery speed** and improving overall team efficiency.

PUBLICATIONS

Chawla, T. and Hande, R. (2021). "Equity Portfolio Generation and Optimization Using Machine Learning." *Journal of Advanced Research in Computer Science*, 9(1), 99-106. DOI: 10.48175/IJARSCT-3064

PROJECTS

etcd - Raft — GitHub	2023
<i>Go, GitHub Actions, Tracing, Distributed Systems</i>	
<ul style="list-style-type: none">Enhanced the Raft consensus algorithm implementation by developing end-to-end testing using ARM64 runners in GitHub Actions, improving test coverage by 35% and reducing deployment failures by 25%.	
MindsDB - Open Source — GitHub	2022
<i>Python, SQL, OpenAI, Microservices</i>	
<ul style="list-style-type: none">Integrated Slack API with MindsDB, enabling seamless automation of user queries and OpenAI prompt responses, reducing response time from minutes to seconds.	

EDUCATION

Stevens Institute of Technology	Aug. 2021 – May 2023
<i>Master of Science in Information Systems - GPA: 3.9/4</i>	
<i>New Jersey, USA</i>	
University of Mumbai	Aug. 2017 – May 2021
<i>Bachelor of Engineering in Computer Engineering</i>	
<i>Mumbai, India</i>	

AWARDS & HONORS

Merit-Based Scholarship — Stevens Institute of Technology	2021
<i>Received \$14,000 scholarship for outstanding academic performance and research potential in graduate studies.</i>	
CNCF KubeCon North America Scholarship	2022, 2023
<i>Recognized for contributions to cloud-native technologies and open-source projects.</i>	

CERTIFICATIONS

CKA: Certified Kubernetes Administrator	2023
<i>Container Orchestration, Kubernetes Control Plane Components (Scheduler, kube API Server, etc.), kubectl</i>	
AWS Certified Developer – Associate	2023
<i>Compute(EC2, ECS, EKS), Serverless(AWS Lambda), Database(S3, DynamoDB), IaC(AWS CloudFormation), ALB</i>	
Microsoft Certified: Azure Administrator Associate	2023
<i>Azure Virtual Machines, Entra ID(Active Directory), Storage Services, Azure Monitor, Security</i>	

TECHNICAL SKILLS

Languages: Python, SQL, Go, JavaScript, TypeScript, Java
Backend & Databases: Flask, PostgreSQL, MongoDB, Redis, REST APIs, Microservices
Cloud & DevOps: AWS (EC2, Lambda), Docker, GitHub Actions
AI/ML: LLMs, Transformers, RAG Systems, Text-to-SQL