

Prikshit Tekta

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WORK EXPERIENCE

Graduate Research Assistant

Jan 2023 - present

University of Utah, Salt Lake City, USA

- Orchestrated the deployment of a distributed Elasticsearch cluster to store SSH metadata of 1000+ Cloud Lab Servers, enabling real-time data analysis and detection of potential security threats
- Identified 17% order dependency in UFS (a file system kernel) benchmark evaluation using OrderSage, an in-house Python tool built to measure ordering effects in system performance

Senior Software Engineer

Mar 2021 – Apr 2022

Countly Ltd., Remote

- Led a team of 5 developers in **migrating the entire UI** to Vue.js by following agile development methodology, including pair programming sessions and regular code reviews, **expediting development by 3 months**
- Managed high-profile clients such as BMW, Coca-Cola, and Verizon by delivering solutions tailored to the client's infrastructure and debugging complex issues, ensuring near **zero downtime**, and improving customer satisfaction and retention
- Incorporated plugin architecture into Countly Dashboard utilizing data structures and design patterns, working closely with the CTO, resulting in a scalable and reusable application architecture

Full-Stack Software Engineer

Oct 2017 – Mar 2021

Countly Ltd., Remote

- Spearheaded the full-scale development of Remote Config, AB Testing, and Performance Monitoring, from design, implementation, i18n, and testing to releasing, support, and maintenance using Node.js, Vue.js, and MongoDB, generating a **revenue of \$2 million in 2020-2021**
- Transformed raw data into actionable information by implementing Figma designs for NPS, Ratings, and Surveys, using Server-Side rendering and Cross-Window messaging to overcome the Same Origin Policy in web apps
- Remodeled real-time dashboard reports by integrating Puppeteer, **supporting 3x more widgets**
- Developed enterprise-level APIs (Application Programming Interfaces) and services for web & mobile software development by fostering cross-functional collaboration with marketing, sales, and product teams to gather business requirements

Backend Engineer

Jun 2016 – Jul 2017

Jugnoo Ride Sharing, Chandigarh, India

- Accelerated code performance by optimizing SQL queries using better indexing and employing the Async module for asynchronous code execution, achieving a **40% – 50% improvement in API response times**
- Developed a Push Notification micro-service for Windows, iOS, and Android platforms using Node.js, APNs, and FCM/GCM, dispatching an estimated 5k+ targeted marketing campaigns daily, **saving \$30,000 annually**
- Amplified total ride count **by 250 per day** by implementing ride-sharing using JavaScript Promises

TECHNICAL SKILLS

Programming Languages:	JavaScript, Java, Golang, Python, C++, C, GraphQL, CSS3, HTML5
Libraries/Frameworks:	Node.js, Vue.js, React.js, jQuery, React Native, Express, Flask, Puppeteer
Platforms/Services:	Docker, Kubernetes, Nginx, Amazon Web services (AWS), Google Cloud Platform (GCP)
Databases:	SQL, MongoDB, Redis, PostgreSQL, Elasticsearch

EDUCATION

University of Utah, Salt Lake City, USA

Aug 2022 – May 2024

Master in Computer Science

PROJECTS

Advance Operating System

Aug 2023 – Dec 2023

- Conducted heavy benchmarking of io_uring, exposing a **1.5x increase** in throughput without thread pinning
- Implemented zero-copy ring buffer in xv6 using C, outperforming original xv6 pipe **by 97%**

Computer Architecture

Aug 2023 – Nov 2023

- Investigated Branch Predictor accuracy using C++, finding the Tournament predictor to have the highest accuracy
- Analyzed Cache Prefetchers using C++, confirming the Distance Prefetcher has a maximum **hit ratio of 83%**

Distributed Systems

Aug 2022 – Dec 2022

- Built a distributed fault-tolerant MapReduce service in Go with 1 master and 10 workers
- Engineered RAFT (consensus algorithm) in Go, sustaining **0 failures across 1000 runs**

Skill Sharing Platform

Oct 2019 – Jun 2021

- Conceptualized and built a social networking app focused on skill sharing using React Native, Node.js, and PostgreSQL. Managed end-to-end Software Development life cycle, leading to a successful launch on Apple and Play Store with **1000 users in 3 days**
- Crafted a resilient chat schema with features such as Delete for Me and Delete for Everyone, bolstering user message control and privacy

Log-err

Feb 2017 – Jun 2017

- Published a lightweight, open-source logging module written in JavaScript to npm, enhancing overall debugging speed
- With over **628 downloads**, the module empowers developers to monitor requests and responses efficiently