

Kesara Karannagoda

Software Engineer

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Profile

A fresh graduate and dedicated Software Engineer with two years of experience excels in analyzing and modifying existing software, as well as developing, designing, and testing end-user applications that match user needs, utilizing various software programming languages.

Areas of Expertise

Software Engineering - Agile Methodologies - Problem Solving - SEO - DevOps - Cloud Computing - Software Architecture - Database Management - User Experience - Graphic Designing - Backend Development - Web Development

Education

BSc (Hons) Information Systems *University of Colombo School of Computing* **Colombo, LK** 02/2020 - 05/2024

- **Publications:** Nebula, a Gamification Framework for a High-quality Online Learning Experience (ICERI conference)
- **Achievements:** Shortlisted for the David Pieris Group Award for the Best Industrial Training

Professional Experience

Software Engineer, (Bitzquad (Pvt) Ltd) **Colombo, LK** 10/2021 - 03/2024

- Led Bitzquad as the founder, serving in a leadership role by creating organizational goals, monitoring progress, designing marketing and media relations strategies, and implementing creative branding strategies.
- Successfully managed company growth, increasing the employee count from 4 to 14, fostering a collaborative and high-performance team culture.
- Implemented 3 end-user production-grade software projects and led the team in preparing progress reports.

Intern Software Engineer, (Creative Software) **Colombo, LK** 11/2022 - 10/2023

- Assisted in validating Cognite Data Fusion Bootcamp instructions as part of the Bootcamp Validation team.
- Managed operational tasks for the Foundational Infrastructure team using Terraform, Kubernetes, ArgoCD, GitHub Actions, and Grafana.
- Co-researched Kubernetes Vertical Pod Autoscaling for different workloads in foundational infrastructure.
- Evaluated the Bit micro frontend framework for component-based micro frontend development.
- Designed and enhanced the lazy logs frontend for foundational infrastructure using Next.js.
- Created a Next.js GitHub template for frontend-based solutions and documentation in foundational infrastructure.
- Implemented user session management in the Next.js template using Redis cache.
- Practiced Scrum methodologies, providing daily progress updates to technical and managerial stakeholders of the Cognite client.

Software Developer, (DEInclusive) **(Remote), Online** 04/2022 - 09/2023

- Designed a recruitment platform for underserved communities in the United States.
- Collaborated with project founders to enhance brand quality and awareness of the project.
- Improved operational efficiency by introducing agile methodologies (Jira, SCRUM, Confluence) and DevOps culture using AWS services.
- Researched social media trends and executed content strategies for the project.

Web Developer, (Fiverr) **(Remote), Online** 07/2020 - 07/2022

- Designed and implemented a personal merchandise brand website using WordPress and fulfilled customer expectations
- QnA web application using CodeIgnitor and Animal Talent website using WordPress.
- Bug fixing services related to Javascript, CSS3, SCSS and PHP.

Certifications

- CCNA Routing and Switching: Introduction to Networks (Jan. 2019) - [Cisco Networking Academy](#)
- M001: MongoDB Basics (Apr. 2022) - [MongoDB](#)

Projects

Nebula Framework API Service ([ICERI](#)) 2024

- A Deep Gamification API service that provides deep gamification elements to higher educational platforms.
- Used Technologies: Python; FastAPI; Pydantic; OpenAPI Standards; MongoDB; NextJS;

DEInclusive (www.deinclusive.com) 2022

- DEInclusive is an organization that connects diverse top talent to prospective employers in the United States.
- Used Technologies: AWS Services; Next JS; MongoDB; Agile SCRUM; Jira; Git; GitHub; Tailwind CSS;

FlexGuru ([Github](#)) 2021

- FlexGuru is a freelance tutoring platform that allows students to request their education lessons.
- Used Technologies: Google Cloud Services; Azure; PHP; HTML; SCSS; REST; MySQL workbench;

Bitzlogger ([Github](#)) 2021

- This is an educational project that sends the target machine's key press log to a cloud database by creating a backdoor.
- Used Technologies: Google Cloud Services; Cloud DNS, API Endpoint, Compute Engine; Python;

Skills

- **Programming Languages:** Python, Javascript, Typescript, Php
- **Libraries & Frameworks:** Next.js, React, FastAPI, Node.js, Tailwind CSS
- **Cloud Technologies:** AWS, Azure, GCP, Linode, Docker, Kubernetes, Cloudflare, Vercel
- **Database:** MongoDB, MySQL, Prisma, Redis
- **CI/CD:** GitHub, GitHub Actions
- **Observability:** Prometheus, Grafana
- **IDEs:** VSCode, Pycharm, WebStorm
- **Graphic Design & UI/UX Tools:** Adobe Illustrator, Adobe Photoshop, Figma
- **Productivity:** Jira, Confluence, Notion, GitHub Projects
- **Soft Skills:** Planning, Organized, Creative Problem-Solving, Teamwork, Adaptability, Analytical Thinking

Languages

- **English** [Professional]
- **Sinhala** [Native]