

# Arkadip Bhattacharya

Portfolio: [arkadip.dev](https://arkadip.dev)

Github: [github.com/darkmatter18](https://github.com/darkmatter18)

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## EDUCATION

- Government College of Engineering and Textile Technology** Berhampore, WB, India  
*Bachelor of Technology - Computer Science and Engineering; GPA: 8.68/10.0*  
*Courses: Data Structures and Algorithms, Operating Systems, Computer Networking, Database Management Systems*  
July 2017 - June 2021

## SKILLS SUMMARY

- Languages:** Python, TypeScript/JavaScript, Go, C++, SQL, Java
- Frameworks:** Django, FastAPI, Spring, Spring Boot, Hibernate, gRPC, Celery, Express.js, React.js, Next.js
- Databases:** MongoDB, PostgreSQL, MySQL, SQLite, Cassandra, Redis
- Technologies:** RestAPI, MQTT, OAuth2.0, AMQP/Kafka, Microservices, Nginx, Reverse Proxy
- DevOps Tools:** Kubernetes, Keda, Karpenter, Docker, GIT, Github, Gitlab, CI-CD, Terraform, Grafana, Prometheus
- Cloud:** AWS, Microsoft Azure, Google Cloud, Firebase, Heroku

## EXPERIENCE

- Nimblework, Inc.** Bengaluru, IN  
*Senior Software Engineer (Full-time)* July 2024 - Present
  - AgWise App:** Led the design and Development of the Application Backend from scratch using FastAPI and created 100+ endpoints with **500ms P99 response time**, used applications like **load-balancing, caching, message queues, rate-limiting** etc.
  - MQTT Application:** Architected the event-driven architecture to handle **1000+ concurrent messages** coming from IoT devices, **without any message loss** using **RabbitMQ, AMQP, MQTT, and gRPC**.
  - Interview:** Conducted over **30+** technical interviews for diverse technical positions.
- Nimblework, Inc.** Bengaluru, IN  
*Software Engineer (Full-time)* December 2021 - June 2024
  - Migration:** Led the Migration of all services from AWS to Azure, ensuring **Zero downtime** during business hours.
  - WhatsApp Chatbot:** Architected and launched the "AgWise Conversational Agri" Platform, allowing Farmers to leverage all Agri features using WhatsApp, increasing **User Engagements**.
  - Cloud Native Architect:** Designed and deployed a robust, highly available, and cost-effective infrastructure in **Azure**, by using **Kubernetes Services, Storage account, Key vault, Virtual network, Load balancer, and CDN**.
  - Data Model:** Strategically designed the core database to cater to diverse Agri-tech and time-series use cases **improving processes, query response time, and boosting overall efficiency**.
  - Kubernetes Services:** Deployed and maintained **20+ microservices** on the Azure Kubernetes Services(AKS), resulting in a **35% cost reduction** while maintaining a robust **Uptime of 99.99%**.
  - DevOps:** Achieved a significant improvement in software release efficiency by reducing the release cycle from 7 days to a daily by the implementation of a robust CI/CD pipeline on Gitlab-CI.
  - Monitoring:** Implemented the monitoring Stack using **Grafana, Prometheus, Loki, and Jaeger** for comprehensive service ecosystem monitoring, improving data analysis efficiency.
- Nimblework, Inc.** Remote  
*Data Engineering Intern (Internship)* May 2021 - July 2021
  - Created an NPM Library using **Rollup.js and React.js** for the chatbot named kAIron. Integrated Gitlab CI for continuous build and delivery of the library.
  - Developed a full-stack web app using **React.js, Material UI, FastAPI, and MongoDB** to collect surveys from the internal team for model training and validation.

## PROJECTS

- React Auth Kit (React.js, TypeScript, JWT, Authentication, State Management)**[[Docs](#), [GitHub](#)]: Open Source, written in TypeScript React library **used by 2.8K+ projects** having **500+ GitHub Stars**.

## CERTIFICATES

- [Microsoft Certified: Azure Developer Associate - October, 2022](#)
- [Microsoft Certified: Azure Fundamentals - April, 2022](#)
- [Coding Ninjas: C++ - January, 2023](#)
- [Udacity: Computer Vision Nanodegree - January, 2020](#)

## VOLUNTEER EXPERIENCE

- Mentor, Mentors Without Borders** Remote  
Conducted online Python training session impacting over **100+ students** from Indonesia. August 2022 - November 2022