# Arkadip Bhattacharya

Portfolio: [arkadip.dev](arkadip.dev)
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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* — *July 2017 - June 2021*
  **Courses:** *Data Structures and Algorithms, Operating Systems, Computer Networking, Database Management Systems*

## SKILLS SUMMARY

- **Languages**: Python, TypeScript/JavaScript, Go, C++, SQL, Java
- **Frameworks**: Django, FastAPI, 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, Docker, GIT, Github, Gitlab, CI-CD, Monitoring, IaC
- **Cloud**: AWS, Azure, Google Cloud, Firebase, Heroku

## EXPERIENCE

- **Nimblework, Inc.** — Bengaluru, IN
  *Software Engineer (Full-time)* — *December 2021 - Present*
  - **Backend Developer**: Developed the AgWise Cloud Backend from scratch using FastAPI and created 100+ endpoints with **500ms P99** response time.
  - **Data Model**: Strategically engineered the core database distributed stateless data model to cater to diverse Agritech use cases, resulting in a notable **40% acceleration** in API performance
  - **Microservice Architecture**: Designed stateless Microservice Architecture for a highly available and scalable system.
  - **gRPC Implementation**: Developed interservice communication using gRPC and Protobuf for fast and robust backend infrastructure.
  - **Cloud Architect**: Designed a deployed a robust, highly available, secure, and cost-effective infrastructure in Microsoft Azure.
  - **Kubernetes Services**: Deployed all the microservices on the Azure Kubernetes Services(AKS), resulting in a **35% reduction** in cloud expenses while maintaining a robust **service level agreement (SLA) 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 Stack**: Deployed a monitoring Stack using Grafana, Prometheus, and Jaeger for comprehensive service ecosystem monitoring, leading to a remarkable reduction of bug resolution time.
  - **Interview**: Conducted over **30+** technical interviews for diverse technical positions.

- **Nimblework, Inc.** — Remote
  *Data Engineering Intern (Internship)* — *May 2021 - July 2021*
  - **Developed NPM Library**: 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.
  - **Full Stack Web App**: 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**.
- **Caption AI (FastAPI, React, PyTorch, LSTM, Computer Vision)**[**GiHub**]: Self-trained AI model based on Microsoft COCO dataset to Caption an Image with high accuracy. (May '20)

## 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 technical training impacting over 100+ students from Indonesia.* — *August 2022 - November 2022*