



## Aden Tahir

**Nationality:** Pakistani **Date of birth:** 21/8/00 **Gender:** Male

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### ABOUT ME

I am a professional software engineer with nearly two years of experience in architecting and engineering avant-garde, efficient web applications and engineering tools. My proficiency spans the entire software development continuum, from conceptualization and requirements elucidation to deployment and post-implementation maintenance. I specialize in crafting robust, scalable, and maintainable solutions, consistently adhering to paradigmatic best practices such as SOLID principles, Design Patterns, Domain-Driven Design (DDD), and Hexagonal Architecture.

### WORK EXPERIENCE

#### Associate software engineer

**Carbonteq** [ 1/2/23 – Current ]

**City:** Lahore | **Country:** Pakistan

- Pioneered the backend development of Navarino AP Automation, an innovative financial automation solution, using Nest.js, Prisma MySQL, and TypeScript. Leveraged Domain-Driven Design (DDD) principles and Hexagonal Architecture to create a robust and scalable solution, significantly optimizing processes and amplifying user experiences.
- Utilized our custom-made functional programming libraries, @carbonteq/hexapp and @carbonteq/FP, for monads and other utilities, demonstrating proficiency in advanced programming concepts and design patterns. This initiative showcased my adaptability and creativity in overcoming complex technical challenges.
- We developed a separate data service using Python, Weaviate, and Hugging Face to perform similarity search, showcasing versatility in using different technologies and languages.
- Implemented an event-driven architecture for a service that fetched Home Depot orders. This service utilized Inngest and triggered workflows according to a scheduled cron, demonstrating a deep understanding of modern software architectures.
- All deployments were dockerized on Google Cloud Platform (GCP) with Google Kubernetes Engine (GKE), accessed using kubectl. This shows my experience in containerization and orchestration technologies. We leveraged GitHub Actions for continuous integration and continuous deployment (CI/CD), and utilized Helm charts in the deployment workflow, indicating my familiarity with DevOps practices.

- Won the Social Butterfly Award at Carbonteq's Annual dinner.

## Elixir intern

**InvoZone** [ 1/6/22 – 1/9/22 ]

City: Lahore | Country: Pakistan

-Collaborated on a critical project involving Elixir's GenServers, successfully implementing a robust solution to retrieve real-time cryptocurrency data from the CoinCap API. This involved handling concurrent requests and ensuring data accuracy, showcasing strong problem-solving skills.

-Demonstrated rapid skill acquisition by completing comprehensive training in Elixir, Phoenix, and Ecto, enhancing my understanding of functional programming, web development, and database management within the Elixir ecosystem.

## PUBLICATIONS

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[2023]

**Diving into the abyss: exploring the unsolvable halting problem**

Aden Tahir, Zarak Khattak, 2023, Carbonteq blogs

## HONOURS AND AWARDS

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[ 1/12/23 ] Carbonteq

**Social Butterfly award** Awarded at carbonteq annual dinner 2023.

[ 7/1/18 ] CERN

**BL4S** My team got an honorable mention by CERN beam line for schools 2018 edition

## EDUCATION AND TRAINING

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### Bachelor of Science in computer science

**University of Management and Technology** [ 1/9/19 – 1/7/23 ]

City: Lahore | Country: Pakistan | Website: [www.umt.edu.pk](http://www.umt.edu.pk) | Level in EQF: EQF level 6