

# Atakan Erbaş

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## WORK EXPERIENCE

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### Wealt

Nov. 2023 - Present

*Employee #1 - Backend*

*London-Remote*

- Architected and developed core serverless API and algorithms on real-time and historical asset valuation, financial data aggregation and cross currency calculations (supporting 50+ currencies) for Wealt Platform, which is generating more than 1,000,000 financial data points a day for user assets and transactions.
- Engineered a serverless, robust wealth management platform using Infrastructure as Code (IaC) with AWS CDK, leveraging Go, Python, AWS API Gateway, Lambda, Step Functions, and DynamoDB.
- Designed <10ms latency DynamoDB NoSQL single table models and queries for efficiently processing and serving financial data using techniques like secondary and sparse indexing, sharding and denormalization.
- Successfully integrated 5+ third-party APIs for comprehensive financial data (FX, crypto, stocks), banking gateways and analytics, enhancing platform capabilities and user experience.
- Collaborated with a cross-functional team on UX design, focusing on enhanced visualization of wealth metrics, profit/loss analyses, valuation changes, and cross-currency fluctuations.

### Spiky.ai

Mar. 2022 - Nov. 2023

*Backend Engineer*

*Boston-Remote*

- Implemented serverless backend services for the Spiky Platform, an AI-powered meeting insight solution, which processes 1000+ hours of media a day, using Python and various AWS services.
- Developed cloud infrastructure artifacts and using AWS CDK and Python, ensuring scalability and maintainability for API's and AI processing pipelines.
- Engineered NoSQL data models using DynamoDB to support efficient data storage for the platform.

### Digitopia

Jan.2020 - Mar. 2022

*Backend Engineer | Jun. 2021 – Mar. 2022 | Jan. 2020 – Jun. 2021 (Part-time)*

*Istanbul/Turkey*

- Built the core backend service of Impact Platform using Python/Django and PostgreSQL. Impact Platform has been safely serving hundreds of corporations to measure their journey.
- Orchestrated and configured backend services on Azure using Docker Compose(ELK stack, nginx and so on.)
- Temporarily led the development team.

### Miletos Inc.

Jan. 2019 – Aug. 2019

*Intern - Machine Learning Engineer*

*Istanbul/Turkey*

- Conducted research on computer vision, specifically OCR techniques for document parsing by deep neural networks.
- Built and optimized AI models using PyTorch, applying techniques like pruning, quantization and feature engineering algorithms, resulting in an %80 reduction in memory usage and model size.

### Turkey Artificial Intelligence Initiative

Dec. 2018 - Oct. 2019

*Intern | Volunteer*

*Istanbul/Turkey*

- Developed a content platform using Python and Django which is continuously fed by third-party news feeds.
- Followed new AI models, trends, use cases and created blog content.

### Defne Telecommunications

Mar. 2018 – Aug. 2018

*Intern*

*Istanbul/Turkey*

- Containerized legacy telecommunication projects(IVR, A2P) using Docker and Kubernetes, reduced the manual effort and standardized the dependency management.
- Implementing anomaly detection algorithms over application time series data using neural networks.

## EDUCATION

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### Istanbul Technical University

2016 - 2021

*Bachelor of Science in Computer Engineering*

*Istanbul/Turkey*

## SKILLS & INTERESTS

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- **Languages:** Python, C++, Go
- **Frameworks and Libraries:** Django, Pandas, Numpy, FastAPI, pytest, boto3, CDK
- **Technologies and Tools:** Linux, AWS, Git, Docker, Kubernetes
- **Interests:** Playing blues harmonica, sailing, camping