Atakan Erbaş

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WORK EXPERIENCE

Tightly   **Oct. 2024 - Present**
Backend Engineer   *London-Remote*
- Develop backend services for inventory planning, working capital optimization and smart replenishment capable of processing 20,000+ SKUs per tenant, utilizing Python, PostgreSQL, and containerization with Kubernetes and Docker, deployed on AWS infrastructure using EKS, RDS and other services.
- Orchestrated 5+ integrations with e-commerce platforms (Shopify) and accounting systems (Xero, QuickBooks) while contributing to email system connections to enhance the platform's inventory management capabilities.
- Design domain-specific models which capture retail business operations, starting from stock tracking to purchase order and supplier relationship management.
- Maintain and monitor stability and scalability of mission critical software by using platforms including Datadog.

Wealt   **Nov. 2023 - Oct. 2024**
Employee #1 - Backend   *London-Remote*
- Engineered APIs and algorithms for real-time and historical asset valuation, aggregating financial data across 50+ currencies and processing millions of data points daily, ensuring accuracy and scalability.
- Architected 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.
- Integrated 5+ third-party APIs for financial data (FX, crypto, stocks), banking gateways and analytics.
- Contributed to UX design for visualization of wealth metrics, P&L analysis and cross-currency fluctuations.

Spiky.ai   **Mar. 2022 - Nov. 2023**
Backend Engineer   *Boston-Remote*
- Implemented serverless backend services for AI meeting insights platform which processes 1000+ hours of media a day, using Python and AWS services such as Lambda, Cognito, S3, API Gateway, and more.
- Established cloud infrastructure with AWS CDK, for scalable API and AI processing pipelines.
- Designed 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 and led the development of the Impact Platform backend using Python/Django and PostgreSQL. Impact Platform has been safely serving hundreds of corporations to measure their transformation journey.
- Deployed and configured backend services on Azure, including the ELK stack, Nginx, and more.

Miletos Inc.   **Jan. 2019 – Aug. 2019**
Intern - Machine Learning Engineer   *Istanbul/Turkey*
- Conducted R&D on computer vision using deep neural networks for financial document parsing.
- Refined AI models through pruning and quantization, reducing memory usage and model size by 80%.

Turkey Artificial Intelligence Initiative   **Dec. 2018 - Oct. 2019**
Intern | Volunteer   *Istanbul/Turkey*
- Created a content platform using Python and Django which is continuously fed by third-party news feeds.

Defne Telecommunications   **Mar. 2018 – Aug. 2018**
Intern   *Istanbul/Turkey*
- Containerized legacy telecom projects(IVR, A2P) with Docker, standardized the dependency management.
- Implementing anomaly detection algorithms over application time series data using LSTM.

EDUCATION

Istanbul Technical University   **2016 - 2021**
Bachelor of Science in Computer Engineering   *Istanbul/Turkey*

SKILLS & INTERESTS

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