

## PROFESSIONAL SUMMARY

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Seasoned Senior Full Stack Engineer and Machine Learning practitioner with extensive experience delivering large-scale, cloud-native applications. Skilled in .NET Core, ASP.NET Core, React, Python, Julia, and ML frameworks (TensorFlow, PyTorch). Proven ability to design and optimize microservices, build ETL pipelines, and implement CI/CD workflows on Azure and AWS. Adept at improving system performance (up to 40%), enhancing data-driven insights, and ensuring 99.9% uptime. Combines deep technical expertise with strong communication, analytical thinking, and a passion for clean, maintainable code.

## TECHNICAL SKILLS

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- **Languages & Frameworks:** C#, Python, JavaScript/TypeScript, SQL, Julia, R, Matlab, F#, Haskell, .NET Core, ASP.NET Core, Entity Framework Core, React.js, Next.js
- **ML & Data:** TensorFlow, PyTorch, Scikit-learn, Computer Vision, ETL Pipelines, SQL Server, MongoDB, ML.NET, Kafka, Power BI
- **Cloud & DevOps:** Azure (App Services, Functions, DevOps), AWS (Lambda, EC2, S3), Docker, Kubernetes, Jenkins, GitLab CI/CD, Terraform
- **Tools & Practices:** Git, Azure DevOps, Jira, Confluence, SonarQube, Microservices, REST APIs, Automated Testing, Agile/Scrum

## EDUCATION

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- **Çanakkale Onsekiz Mart University** 2022 - 2026  
*B.A. in Philosophy* Çanakkale, Turkey
  - Focused on analytical reasoning and epistemology, enhancing critical thinking skills ideal for complex software and ML challenges.
- **Istanbul University** 2016  
*Coursework in Linguistics* Istanbul, Turkey
  - Studied computational linguistics, psycholinguistics, and NLP applications, informing language modeling and data preprocessing strategies.

## EXPERIENCE

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- **Dental Center Turkey** Aug 2024 - Nov 2024  
*Data Analyst* Antalya, Turkey
  - Engineered high-throughput ETL pipelines with .NET Core and Azure Functions, processing over 500GB of monthly data at 99.9% accuracy.
  - Leveraged Python (Pandas, SQLAlchemy) to resolve a 1.5-year-old financial data analytics issue, normalizing flows, detecting anomalies, and improving financial reporting reliability.
  - Developed ML-based forecasting models (TensorFlow) that improved financial predictions by 45%.
- **Turconcept** Sept 2023 - June 2024  
*Senior Full Stack Engineer* Antalya, Turkey
  - Led the design of microservices using ASP.NET Core and React, reducing system latency by 60%.
  - Implemented automated CI/CD on Azure, achieving zero-downtime deployments and seamless scaling.
- **Phoenix Academy** Aug 2022 - Jan 2023  
*Front-end Developer* Antalya, Turkey
  - Developed high-performance, responsive UI with React and TypeScript, cutting load times by 40%.
  - Integrated multi-chain cryptocurrency solutions via Web3.js, ensuring robust uptime and secure transactions.

## SELECTED PROJECTS

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- **True Atmospheric Randomness Tool** *GitHub*  
*Advanced File Selection System*
  - Developed a file selection tool using quantum-level randomness from Random.org, integrating Heron's formula and Monte Carlo simulations to ensure statistically rigorous outcomes.
- **I-Ching Divination System** *GitHub*  
*Cryptographic-Grade Randomness*
  - Implemented an I Ching oracle blending cryptographic randomness with deterministic transformations for precise hexagram generation.
- **GAS Price Levels Indicator** *GitHub*  
*Algorithmic Trading Analytics*
  - Built a complex trading indicator incorporating multiple alpha factors, dynamic IC weighting, and Bollinger Bands for adaptive market insights.
- **Oracle - Modern PGM** *GitHub*  
*Next.js-Based Divination Platform*
  - Created a fortune-telling platform leveraging true randomness, voice synthesis, and bilingual texts, combining tradition with modern web technologies.
- **Financial Data Analysis** *GitHub*  
*Correlation Analysis Engine*
  - Developed a REST API for financial correlation analysis, integrating ML.NET for data processing and Plotly for interactive, visual insights.
- **BTC Price Prediction** *GitHub*  
*Stochastic Calculus and ARIMA-GARCH Models*
  - Applied ARIMA-GARCH modeling and Monte Carlo simulations to cryptocurrency data, achieving 90% backtest accuracy for price forecasting. Implemented measures against overfitting.