

Tansu Turkoglu

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At a Glance

Computer Engineer, 25+ years experience.

Worked as; CEO, CTO, CIO, technical leader, software architect/developer.

Good at; analytical thinking, problem solving, innovation, leadership.

Experience in; software engineering, product design, entrepreneurship, startups.

Technologies used; python, nodejs, typescript, javascript, asp.net webforms/mvc/core, c#, c++, delphi, react, react native, flutter, vuejs, angular, ionic, sql-server, oracle, mongodb, aws, azure, signalr, rfid, multi-threaded-development, performance-testing, git, bitbucket, redis, apache kafka, nosql, vs-net, vs-code, mocha, solidity, smart contracts, ml, python, numpy, pandas, matplotlib, torch

Also used; Google Tag Manager, Google Analytics, Facebook Ads, Google Marketing Platform.

Current R&D on; Blood Analysis using AI, Personal Health, Algorithmic Trading, Design Thinking, Social Psychology

Education

- B.S., Computer Engineering, Middle East Technical University, 2000. (While working fulltime)

Work Experience

2017-2024 Aibrite Inc., Co-Founder, CTO

- **NeuralNet Python Framework**, Developed a new neural network framework from scratch. Source code can be found at <https://github.com/aibrite/ml-framework>
- **Consultancy and Technical Leadership**, Technical leadership projects focused on machine learning and data science in finance and healthcare.

2008-now Kalitte LLC, Projects Coordinator and CTO

- Working Projects Coordinator & CTO. Manage a team of 12+ people, also helping to business development team. Managing research & development on new technologies and possible opportunities.
- Designed & developed below products.
 - **KasaptanAI**, e-commerce high traffic marketplace solution for butchers to sell online.
 - **JDash**, an Asp.Net MVC/WebForms/NodeJs component framework which allows developers to integrate drag-drop dashboards into their applications. 1000+ customers (90% inside U.S.)
 - **Natural Language Query**, a python framework for converting text to SQL.
 - **MobiResta**, cloud based restaurant menu and waiter communication system + hybrid mobile application,
 - **RFID/sensor middleware**, which monitors and manages connected devices.
 - **Data visualization and analytics application**. Library source code can be found at <https://github.com/jdash-net/In-Memory-Analytics>
 - **Microsoft Office Addin**, for common tasks i.e. sending multiple e-mails, document security.
 - **Ultimate Smoking Analyzer**, Windows phone application to help smokers better understand and analyse smoking habits. Details can be found at <https://www.microsoft.com/en-us/store/apps/ultimate-smoking-analyzer/9nblgggzmzhw>

2023-2024, Goaltech UK., Software Engineering Manager & Architect

- **Algorithmic Trading Software**, responsible for developing & architecting generative AI models, backend/frontend applications.
- **Managed a team of 10+ software developers**, also helped business development team.
- **NodeJs, Typescript, React, React Native, Generative AI, Apache Kafka, Redis, Python, FastAPI, MongoDB, Docker**

2016-2017 Physioh Inc (YC Backed), Co-Founder, CTO, CIO

- Manage research and development, monitor technology and social trends that could impact the company. R&D on healthcare and telemedicine applications.
- Designed & developed below products.
 - **Mibo**, cloud based online healthcare application.
 - **Wellbit**, enterprise wellness platform.

2006-2008 Writer

- Writer of Professional Programming Techniques for Microsoft.Net book. Also developed online sales web site.
- Sold 10,000+ books in Turkiye.

2000-2006 Kale Software, Software Architect & Technical Lead

- Worked on large scale nationwide projects.
- Developed mission critical candidate registration web application and service interface project responsible for registering 4,5+ million candidates on 20 days every 4 months. Managed a team of 8 professional developers. Awarded by Microsoft as best asp.net application of the year on 2006.
- Developed online job search and smart matching application project. Worked as a software architect and project manager. Managed 30+ professionals including software developers, user interface designers, test engineers and business analyzers.
- Designed & developed first e-government web service project which serves 10,000+ clients and has 120+ million records. Awarded by Turkish government on 2005.
- Developed e-voting R&D project sponsored by Turkish R&D department. Made R&D on data security, advanced encryption and data signing.
- Architected synchronization of distributed 80+ oracle databases which holds identity information for Turkish citizens. Used POP3/SMTP protocol.

1998-2000 Bilfo Computer Systems, Software Developer

- Developed hospital and laboratory information system using Delphi, Oracle and Interbase.

Personal Projects

- app-states JavaScript library, router for Google Polymer library, 2015. Source code can be found at <https://github.com/Kalitte/app-states>
- TansuTCP, a TCP trace/forwarding utility application developed using Delphi, 2006.

Publications

- Professional Programming Techniques for .Net book, 500+ pages, 2007
- Delphi Programming & SQL book, 500+ pages, 2001