

A. ANIL | SINACI



► **R&D:** Data Management, Interoperability, Artificial Intelligence & Machine Learning, Big Data Analytics & Business Intelligence, Semantic Web & Linked Data, eHealth Infrastructures

►► Summary

I am a software engineer and computer scientist with 15+ years of experience ranging from desktop, web and mobile applications to cutting-edge research projects. I lead software development teams to build products for customers and solutions for research projects.

I hold a PhD in computer science/engineering. I worked for many large-scale, international R&D projects by creating ideas, compiling the project proposals, designing and implementing the solutions, and leading scientific and technical teams. I authored many papers published in peer-reviewed journals and conferences. I contribute to open-source software development and standardization activities. I am an Apache committer and I push my research results to GitHub. I am the leading editor of the ISO/IEC data element exchange (DEX) standard.

► **Dev:** Object-oriented, Functional, Imperative programming. Java, Scala, C, TypeScript. SQL, RDBMs, Apache Spark. DevOps, Containers. HL7 FHIR, OMOP/OHDSI, IHE profiles.

►► Experience

2011 - . · SRDC Software R&D and Consultancy Corp.
Principal Engineering Manager, Senior Researcher

- I built and managed multiple software development teams to build products and solutions for individuals, researchers and large industries.
- I did research on intelligent data/metadata management, data interoperability, (federated) machine learning and developed several solutions.
- I gained an extensive domain knowledge on eHealth and I became an expert with the help of many R&D projects.

2016 - 2020 · Middle East Technical University
Instructor

- A part-time job alongside my professional career.
- I worked as a course instructor at the Department of Computer Engineering offering courses on C programming.

2009 - 2011 · Middle East Technical University
Teaching/Research Assistant

- I worked as a teaching assistant; lectured the laboratory sessions and recitations, and prepared and evaluated many programming assignments
- I worked as a technical consultant to companies to support their software R&D activities.

2007 - 2009 · Software Research & Development Center
Software Engineer

- I was a key member in a product development where I designed an API, developed its back-end and web front-end.
- I implemented various networking standards for conformance and interoperability testing of client software systems.

►► Education

2009 - 2014 · Middle East Technical University
PhD. in Computer Engineering

- PhD dissertation: Data Interoperability Through Federated Semantic Metadata Registries.
- I designed and implemented a novel interoperability architecture based on Common Data Elements, Semantic Web technologies and Linked Data principles.
- My studies led to a new standard under ISO/IEC.

2007 - 2009 · Middle East Technical University
MSc. in Computer Engineering

- MSc thesis: A Conformance and Interoperability Test Suite For Turkey's National Health Information System and An Interactive Test Control and Monitoring Environment.
- I built a testing environment so that the client software can test themselves in terms of conformance and interoperability with respect to the standards used in various layers of web service communication.

2003 - 2007 · Middle East Technical University
BSc. in Computer Engineering

- I got accepted for one of the best CS departments in Turkey with a rank of 78th among 1.5 million candidates in the national exams.
- I worked as a part-time software developer at my senior year.
- I will always remember the programming assignments, group projects and long and sleepless nights at the laboratories.