

A. Anil Sinaci

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Software Engineer / Computer Scientist

<https://sinaci.com>

I am a software engineer and computer scientist with 15+ years of development experience ranging from desktop, web and mobile applications to cutting-edge research projects. *I make hiring decisions, build, manage and mentor teams, lead engineering decisions, and deliver software.* I am recognized as a hands-on and competent leader, skilled at coordinating cross-functional teams in fast-paced, deadline-driven environments. *I hold a PhD in computer science/engineering.* I worked for many large-scale, international 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. *I am ready for a tech lead position to harvest my experience, meet new challenges and sharpen my skills.*

EXPERIENCE

Principal Solutions Architect

2016 — Present

SRDC Software Research & Development and Consultancy Corp.

Ankara, Turkey

- Manager of multiple teams to build the scalable and distributed web services and connected applications (Web & Android & iOS) of the Turkish State Meteorological Service. It is one of the most frequently visited websites in Turkey, having **~100 million unique visitors** yearly (2021) and mobile apps are used by over **4 million unique users**, with (almost) **no downtime**. ↗
- Technical coordinator of the FAIR4Health project which had a **3 million €** budget. Led a work package by **managing 17 different organizations across Europe** working on health data interoperability and privacy-preserving federated machine learning. ↗
- Work package leader of the AICCELERATE project which had a **~11 million €** budget. **Led 15 different organizations across Europe** working on application of AI solutions in real-world healthcare settings. ↗
- Principal solution architect of mantIQ Business Intelligence Platform. Managed multiple teams of software engineers, UI/UX experts to provide high-performing and personalized analytics visualizations to decision makers of healthcare organizations. Provided **80% faster queries** for key performance indicators, **30% more efficient** allocation of physical rehabilitation rooms. ↗
- Lead architect and developer of onFHIR Repository; a standards-based, secure and scalable health data repository which handles **100 millions of daily records from 25 million patients** in Turkey. ↗

Instructor

2016 — 2020

Department of Computer Engineering, Middle East Technical University

Ankara, Turkey

- A part-time job alongside my professional career. I worked as a course instructor offering C programming courses. Lectured, prepared exams and graded to **~200** freshman and sophomores in each semester. ↗

Senior Software Engineer

2011 — 2016

SRDC Software Research & Development and Consultancy Corp.

Ankara, Turkey

- Lead architect and developer of SemanticMDR, a standards-based metadata management system on a **novel data interoperability framework**; side-product of my PhD study. ↗
- Senior developer of the semantic content management modules of the IKS project which had a **6.5 million €** budget with 13 partners across Europe. ↗ Apache Stanbol was born where I was a committer and member of the project management board. ↗
- Software development manager of SALUS project which had a budget over **5 million €** where I coordinated the development of postmarket drug safety and surveillance systems from electronic health records. ↗

Teaching/Research Assistant

2009 — 2011

Department of Computer Engineering, Middle East Technical University

Ankara, Turkey

- Prepared and graded several programming assignments of hundreds of students for undergrad courses like data structures, file structures and database management systems. ↗ ↗
- Technical and academic **consultant to 2 different companies** to support their product development and R&D activities. ↗

Software Engineer

2007 — 2009

Software Research Development Center, Middle East Technical University

Ankara, Turkey

- Full-stack developer of the TestBATN system which provided a self conformance testing service for interoperability standards. I developed test cases so that nearly **200 software vendors** tested their products to get integrated to the national health information system of Turkey. ↗

EDUCATION

PhD. in Computer Engineering, *Middle East Technical University, Ankara, Turkey*

2009 — 2014

- I designed and implemented a novel interoperability architecture based on Common Data Elements, Semantic Web technologies and Linked Data principles.

MSc. in Computer Engineering, *Middle East Technical University, Ankara, Turkey*

2007 — 2009

- I built a testing environment so that a client software can be tested in terms of conformance and interoperability with respect to the standards used in various layers of web service communication.

BSc. in Computer Engineering, *Middle East Technical University, Ankara, Turkey*

2003 — 2007

- 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 in my senior year.