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Work Experience

Feb 2023 – ... : Assistant Professor, FMV Işık University, School of Engineering and Natural Sciences, İstanbul. Erasmus coordinator and Graduation Projects Coordinator for the Department of Computer Science and Engineering.

Jun 2017 – Jan 2023 : Assistant Professor, İstinye University, School of Engineering, Istanbul. Founding chairman of the Department of Software Engineering. Summer internships coordination for department's undergraduate students.

Nov 2022 – Feb 2023 : Python Engineer, Upstack (Encounter AI). Helped transform the current codebase of the company's main product from a complex monolithic structure to a modular, flexible, and extensible architecture.

Sep 2022 – Nov 20232: Senior Python Developer, Toptal (Ark Partners Limited). Backend development with Django, PostgreSQL, GraphQL and Graphene for influencer-based marketing solutions.

Oct 2021 – June 2022 : Backend Software Developer, Toptal (*Woven Planet Holdings,* formerly known as *Toyota Research Institute for Autonomous Driving, TRI-AD*). Backend software development as part of the identity team for the entitlement management solution within Toyota Motor Corporation R&D Division for Autonomous Driving.

Sep 2020 – Aug2021 : Lead Software Developer, Toptal (*Shivagos Inc.*). Software development with Python for a new crypto currency trading system, web scraping for financial data, processing and storing in relational databases, multi-threaded job scheduling, installation of the CI/CD environments fort the Project.

Sep. 2018 – Jan. 2020 : Python Software Architect, Crossover for Work, Remote work on architecting cloud based data intensive applications for Data Engineering & High Touch Recruiting (HTR) Operations Groups. Maintenance of several cloud based products for intra-net collaboration, data analytics, and agile performance evaluation.

July 2015 - May 2017 : Special Projects Manager, Turk Telekom, Emerging Services and Innovation Group, Istanbul. Conducting enterprise data based information and value extraction implementation projects. Management of data/text mining, data privacy and utility related research projects.

September 2014 – June 2015: Software Development Manager, TR Team, Yupana LLC, Istanbul, Turkey. Steering the Turkish software team, coordination and management of telecommunications software projects.

November 2008 – May 2014: R&D Group Manager, Applications & Services, Defne Communications Ltd., Istanbul, Project leadership for value added services. Solution provisioning for mobile telecommunications operators. Management of the requirements specification, development, testing, integration, planning, documentation, and training processes. Managing the recruitment, and professional development processes of the group personnel. Technical consulting for ITEA2 EUREKA Cluster projects.

Sep. 2002 – Jun. 2008: Software Development Specialist, Telsim – Vodafone Telecommunications Inc., Istanbul, Requirements analysis, application development, and technical supervision for the realization of value-added services. Implementation of specialized Computer Telephony Integration (CTI) projects. Software development, testing and systems integration for real-time interactive voice applications on MS Windows platforms. Asynchronous I/O programming, and interprocess communication (IPC) software development with Win32 API.

Sep. 2001 – May 2002: Software Engineer, Sinyal Inc., Istanbul, Turkey.
Software development for real-time distributed naval combat management systems. Implementation on CORBA distributed application development platform. Front-end software development for an Electronic Chart Display & Information System (ECDIS) based on X-Windows and MOTIF toolkit. Installation and maintenance of the company's software development and configuration management environments.

Jul. 1999 – Apr. 2001: IT Infrastructure Supervisor, Cargill Inc., Fructose Plant, Bursa, Turkey.
Installation, integration, licensing and maintenance of automation and IT infrastructure, and business applications of a production plant. Coordinating internal help desk and user support activities, relations with external suppliers and vendors. Directory, database, file, and web/information services administration. SNMP based network management.

Apr. 1998 – Mar. 1999: Military service fulfilled as a computer engineer at Southern Sea Area Command, İzmir.

Jan. 1997 – Oct. 1997: Software Engineer, TelSoft Inc., Istanbul, Turkey.
Communication protocol software development and maintenance for Intelligent Network (IN) architectures. User level and kernel level protocol code writing and debugging on various Unix platforms. Programming based on sockets and streams mechanisms. Using distributed defect tracking and software configuration management tools.

Educational Background

PhD, Ege University, Graduate School of Natural and Applied Sciences, Department of Computer Engineering, İzmir, Turkey, 2008.
Thesis Subject: Application of semantic web and multi-agent technologies to the development of value added telecommunications services.

MSc, University of Southern California, School of Engineering, Department of Computer Science, Los Angeles, California, USA, 1994.
Specialization: Data communications and computer networks.

MSc, Bilkent University , Institute of Science and Engineering, Department of Computer Engineering and Information Science, Ankara, Turkey, 1993.
Thesis Subject: Formal communication protocol specifications and conformance testing.

BSc, Yıldız Technical University, School of Engineering, Department of Computer Science and Engineering, İstanbul, Turkey, 1990.

Projects

1. *"TopUp Interactive Voice Response Platform for Prepaid Mobile Telecommunication Services Subscribers"*, **Vodafone Telecommunications**, *Software Developer*, 2005.

2. *"Middleware Development Between Real-Time Interactive Voice Response and Relational Database Management Systems"*, **Vodafone Telecommunications**, *Project Leader, Software Developer*, 2005.

3. *"Mobile Colored Ring Back Tone (CRBT) Provisioning and Network Integration"*, **Vodafone Telecommunications**, *Project Leader, Software Developer*, 2006.

4. *"Value Added Services Platform (VASP) Modernization"*, **Vodafone Telecommunications**, *Project Leader*, 2006.

5. *"Malicious Call Barring (MCB) Provisioning and Network Integration"*, **Defne Communications**, *Project Leader*, 2009.

6. *"Shared Mobile Collect Calling Platform"*, **Defne Communications**, *Project Leader*, 2010.

7. *"Sponsored Mobile Calling Platform"*, **Defne Communications**, *Project Leader*, 2011.

8. *"Bulk Messaging (SMS, MMS) Management Platform"*, **Defne Communications**, *Project Leader,* 2012.

9. *"ITEA uService (Ubiquitous Service Infrastructure for the Mobile Super Prosumer)"*, **Defne Communications**, *Project Technical Consultant*, 2012. (https://itea3.org/project/uservice.html).

10. *"Mobile Advance Calling via Micro Credit Utilization"*, **Defne Communications**, *Project Leader,* 2013.

11. *"Adaptable Component and Configuration Management Platform* for *4G Networks (4G-UKOBİP)"*, TÜBİTAK TEYDEB 1507, **Yupana LLC**, *Project Manager* (2015 – Taken part during project development, preparation and referee presentations, left the project due to job change).

Technical Skills

Computer Languages: C, C++, Java, Python, ADA, XML, RDF, SQL, HTML.
Systems: Unix, Linux, Windows, MS SQL Server, Oracle, MySQL, MongoDB.
Tools & Technologies: LaTeX, HP Openview, MS Visual Studio, Eclipse, MS Visio, MS Project, ODBC, JDBC, MOTIF, CORBA, Web Services, SOAP UI, JADE, REST, Hadoop, SVN, Git, Jira, Mongoengine.

Publications and Thesis

1. With İ. O. Yiğit, E. Zeydan, *"An Application for Detecting Network Related Problems from Call Center Text Data"*, IEEE International Black Sea Conference on Communications and Networking, June 2017.

2. With İ. O. Yiğit, M. Güvercin, H. Ferhatosmanoğlu, B. Gedik, *"Call Center Text Mining Approach"*, 25th Signal Processing and Communications Applications Conference (SIU), May 2017.

3. With E. Dinç, M. Özger, İ. Delibalta, Ö. B. Akan, *"Crowdsourcing-based Mobile Network Tomography for xG Wireless Systems"*, IEEE Symposium on Computers and Communication (ISCC), June 2016.

4. With R. C. Erdur, *"Leveraging Multi-Agent Systems Backed by Semantic Web for the Delivery of Innovative Value Added Mobile Telecommunications Services"*, Workshop Proceedings of the 9th International Conference on Mobile Data Management (MDM'08), IEEE Computer Society, April 2008.

5. *"Development of a Framework for Value Added Telecommunications Services Using Semantic Web and Agent Technologies"*, PhD Thesis, Ege University, İzmir, Turkey, 2008.

6. With B. Sarıkaya, *"Test Sequence Generation and Timed Testing"*, in Computer Networks and ISDN Systems, special issue on protocol testing, Vol. 29, No. 1, December 1996.

7. With M. Bilgic, B. Sarıkaya, S. Saito, *"Using Timed CSP for Specification, Verification and Simulation of Multimedia Synchronization"*, in IEEE Journal on Selected Areas in Communications (JSAC), special issue on multimedia communications, Vol. 14, No. 1, January 1996.

8. **"***Slicing Approach to Specification for Testability in LOTOS***"**, MSc Thesis, Bilkent University, Ankara, Turkey, 1993.

Patents

"A query system and method to protect data privacy", TPI reference number: PT2016-17017 B.

Honors, Awards, and Activities

Fall 2014 – Summer 2018, undergraduate courses given on Practical Programming with Python, and Operating Systems, at İstanbul Şehir University, College of Engineering and Natural Sciences, İstanbul.

Ssummer 2017 – Spring 2018, undergraduate courses given on analysis of algorithms, and object oriented programming in Java at FMV Işık University, Department of Computer Engineering, İstanbul.

Spring 2016, gave undergraduate courses on programming in C++, and data structures at Bursa Orhangazi University, Department of Computer Engineering.

Fall 2008, Gave an undergraduate course on object-oriented programming in Java at Haliç University, Department of Computer Engineering, İstanbul.

April 2008, Presented a research paper at the International Workshop on the Role of Services, Ontologies, and Context in Mobile Environments (RoSOC-M), held in conjunction with the 9th International Conference on Mobile Data Management (MDM'08), Beijing, China.

2001 & 2008, Listed in Marquis' Who's Who in The World Bibliography.

July 1994 & February 1996, Invited as a visiting researcher to the Computer Communications Laboratory of The University of Aizu at Aizu-Wakamatsu City, Fukushima, Japan.

October 1992, scholarship from Turkish Republic, Ministry of National Education, to pursue graduate studies in United States.

September 1991, graduate fellowship from Bilkent University, Institute of Science and Engineering.

June 1990, graduation from Yıldız Technical University, as the first student in rank among the School of Engineering.

Seminars and Courses

May 2017, Turk Telekom Academy internal training course: "Understanding Financials".

November 2015, Cloudera Developer Training for MapReduce on Hadoop.

August 2010, UXservices training course on "International User Interface/Screen Design and Usability".

June 2007, Business Management Consultants (BMC) short course on "The Art of Project and Time Management".

July 2006, Sun Educational Services' course on "Distributed Programming with Java".

2005, Telsim internal training courses; "Introduction to Core Networks & SS7", and "NSS Routing".

March 2002, course on "BTS Harpoon Software Modification and Development" at THALES International Training Center, Hengelo, Netherlands.