

Career Summary

F. Gediz Aksit

(MSc. Artificial Intelligence – BSc. Computer Engineering)

Key Skills

- Expert/Native English (TOEFL - IBT: 113/120), Expert/Native Turkish, Intermediate Azerbaijani, Beginner Japanese, Beginner Dutch, Beginner French
- More than 15 years' worth of experience in object-oriented development mainly in C++ and C# in academic and commercial settings
- Extensive experience with crowdsourcing through MediaWiki
- Experienced in research, development of robotics and artificial intelligence
- Experienced in migration, deployment and module development of OpenERP/Odoo 8
- Always stays up to date on cutting edge technological developments
- Ability to build, maintenance and disassemble computers
- Ability to deploy hardware and setup networks (both wired and wireless)
- Ability to quickly access and gather information on any topic (skilled internet user)
- Strong team player as a leader and/or member
- Able to organize and motivate himself and colleagues towards the project goal while under pressure of tight deadlines in a resource constrained environment
- Creative, determined, enthusiastic, strongly self-motivated

Technical Experience

Years of Experience	1-2 years	3-5 years	6-8 years	9-11 years	12-15+ years
Advanced Computer Science	Computer Vision, Text Mining	Machine Learning, Datamining			
Software/Web Developer	ArcGIS, RS-232, OpenERP/Odoo 8	Web Developer (back-end)	Software Developer (Applications)		Web Developer (front-end)
Database	MySQL, DB2, PostgreSQL	MS Access, MS SQL			
Web Server		IIS6/7	Apache		
Programming Languages	PHP, Java, JavaScript, WPF, Visual Basic	C, C++, Python, MS Access, Matlab,	C#, ASP.Net		HTML, CSS, MediaWiki
Development Environments	Macromedia Dreamweaver	Eclipse, Netbeans	Microsoft Visio Modeller (UML)		Microsoft Visual Studio (6.0, 2003, 2005, 2008, 2010, 2013)
Microsoft Office		Access	Outlook	PowerPoint	Word, Excel
Operating Systems	Sun Solaris 9 (UNIX), HP-UX	Ubuntu Server 14, 16	Windows Server (2003, 2008 R2, 2012 R2, 2016)		Windows (95, 98, NT, 2000, XP, Vista, 7, 8.1, 10)

Professional experience

- Aileron Technologies**, Brussels, Belgium Dec 2016 - Ongoing
General Manager (+2 years)
Management of Active Directory, Hyper-V, Postgres, MSSQL database, Nginx, IIS, VPN, hMailserver and odoo servers. Ongoing development of a general-purpose transportation robot using advanced AI methodologies such as computer vision, machine learning and pathfinding by using C for embedded systems, C# & MSSQL for the backend
- Roov**, Gent, Belgium Jun 2019 - Oct 2019
Machine Learning Engineer (5 months)
Implementation of a asp.net/C# based RESTful api for OCR (Tesseract & Google Vision), Data Extraction/NLP (SkipGrams, etc.) & Machine Learning (Logistic Regression, Artificial Neural Networks) as a Proof of Concept.
- NATO Air Ground Surveillance Management Agency (NAGSMA)**, Brussels, Belgium Apr 2017 - Sep 2018
Test and Verification Data Management Consultant (+18 months)
Accumulation, management and analysis test and verification data & management of the test and verification database. The task includes consistency/discrepancy identification & analysis of the presented data & compilation of reports that are presented to the board of directors. Management of an MSSQL database over Azure.
- NATO Communications and Information (NCI) Agency**, SHAPE, Belgium Aug 2015 - May 2016
Software Engineering Consultant, Maritime C2 Service line (+10 months)
Reengineering of the Mine Countermeasures Planning and Risk Assessment tools MCM Expert and DARE combined into the single tool MCM PET with ArcGIS & WPF/C# and with PostgreSQL as backend. This was reverse engineered from a legacy Pascal implementation. This has been conducted in accordance with STANAGs and Subject Mater Expert (SME) input.
- Wikimedia Foundation** sponsored Revision Scoring as a Service IEG Dec 2014 - Jan 2016
Software Engineering Consultant (Machine Learning) (+1 year)
Development & deployment of Artificial Intelligence infrastructure, RESTful api, json, machine learning algorithms and data modelling for Wikipedia with Python and PostgreSQL as backend using scikit-learn, numpy NLTK, etc.
- Comforium**, Puurs, Belgium Jul 2014 - Apr 2015
ERP Specialist (+9 months)
Migration to, deployment of and module development for OpenERP/Odoo 8 with HTML 5.0/PHP as front end and Python/PostgreSQL as backend. Magento e-commerce system integration with Odoo ERP for B2C customers.

Internship, projects and volunteering activity

- Cyber Defence Section - NCIRC Coordination Centre**, Emerging Security Oct 2011 - Apr 2012
Challenges Division (ESCD), NATO HQ, Brussels, Belgium (+6 months)
Intern
Analysis of cyber threats such as botnets, development of Microsoft Access based programs to help maintain interoperability some of the existing capabilities. Management of VMware.
- BimSA**, Kocaeli, Turkey Jun - Aug 2008
Intern (2 months)
Development of HR-WEB human resources web application with ASP.NET as front end and C# and DB2 as backend. My role also involved UI design.
- Casati Boya**, Istanbul, Turkey Jun - Jul 2007
Intern (1 month)
Setup and maintenance of company IT software and hardware
- Wikipedia & sister projects**, Wikimedia Foundation Feb 2005 – Ongoing
Volunteer (+12 years)
Implementation of templates and other UI aids as well as general upkeep of the sites through human and automated bot edits

Academic Qualifications and Training

My academic qualifications and training have been primarily in English.

University of Maastricht Maastricht, The Netherlands	MSc. Master of Artificial Intelligence Department of Knowledge Engineering	Sep 2010 - Feb 2014
Bahçeşehir University Istanbul, Turkey	BSc. Computer Engineering Engineering Faculty	Sep 2005 - Jun 2008
Michigan State University East Lansing, Michigan, USA	BSc. Computer Engineering Department of Engineering	Sep 2003 - Jun 2005
SHAPE American High School SHAPE, Mons, Belgium	High School (secondary education)	Sep 2001 - Jun 2003
Kars Anatolia High School Kars, Turkey	High School (secondary education)	Sep 1999 - Jun 2001

Some Projects

- Business card designing program using an MS Access database
- Inventory tracking system using an MS Access database
- Outlook integrated contact tracking system using MS Access database
- Schedule management system program using an MSSQL database
- An Encoding/Decoding program demonstrating Huffman's compression algorithm
- A program that demonstrates binary search trees using pointers
- Various games such as Tic-Tac-Toe, Battleship, MingMang (all with AI), Chips Challenge (OpenGL)
- Secure database oriented human resources web application HR-Web¹ (BSc Internship – 2 mts)
- Robot that plays Soccer by taking blue ball to the red goal (with AI). (BSc Graduation Project - 1 year)
- Datamining & Machine Learning with Error Correcting Output Codes (ECOC) (MSc Thesis² - 1 year)
- Two NAO robots that navigate to a target (a blue box) and coordinate efforts in lifting the box. (MSc - 5 mts)
- Vandalism detection AI to learn and detect vandalism on Wikipedia. (MSc - 6 mts)
- Public ASP.Net websites

Publications

- March 2019 – Artificial Intelligence for People in a Hurry
- 25 February 2014 – Heterogeneous Error-Correcting Output Codes (Master thesis)
- 7 April 2012 – History and Characteristics of Botnets (NATO internship)
- 19 September 2011 – An Empirical Research: Wikipedia Vandalism Detection using VandalSense 2.0, Notebook for PAN 2011 at CLEF 2011
- 23 June 2008 – Autonomous Football Robot for BSc. graduation

¹ HR-WEB: <http://www.bimsa.com.tr/eng/Contents.aspx?content=202>

² Master thesis: http://aksit.info/downloads/Heterogeneous_Error-Correcting_Output_Codes.pdf

Conference, Symposium and Workshop activity

Lunar Exploration Renaissance EC Research Executive Agency (REA), Brussels Belgium	Participant	13 February 2019
The Role of Artificial Intelligence in Tomorrow's Society: Legal and Ethical Considerations KU Leuven, Belgium	Participant	26 March 2018
Wikimania 2015 conference Mexico City, Mexico	Speaker: <i>Would you like some artificial intelligence with that?</i>	15-19 July 2015
The US Shale Gas Revolution and its Security Implications NATO HQ, Belgium	Participant	13 Mar 2014
Computers, Privacy and Data Protection (CPDP) 2014 Brussels, Belgium	Participant	22-24 Jan 2014
Towards a Free Trade Agreement with Japan, European Parliament INTA Committee Workshop Brussels, Belgium	Participant	19 Sep 2012
CLEF 2011 conference Amsterdam, Netherlands	Poster presentation & Notebook for PAN workshop: <i>An Empirical Research: "Wikipedia Vandalism Detection using VandalSense 2.0"</i> ³	19 - 22 Sep 2011
Driven by Search symposium Maastricht, Netherlands	Participant	24 May 2011
Wikimania 2008 conference Alexandria, Egypt	Participant	17 - 19 Jul 2008

Some Personal Details

Date of birth: 18 July 1984

Nationality: Turkish

Interests: astronomy, artificial intelligence, cyber defence, cybernetics, robotics

Hobbies: chess, cinema, classical music, scouting, skiing, StarCraft

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Other Skills and Achievements:

- Gokcebilig Bahçeşehir University Club
- I have achieved the rank of First Class in Boy Scouts of America

³ CLEF 2011 conference publication: <http://www.sciweavers.org/publications/empirical-research-wikipedia-vandalism-detection-using-vandalsense-20-notebook-pan-clef>