Saeed Jamali Fashi

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+1 (514) 566 – 1989 | Montreal, QC

Education

Concordia University	Master of Applied Computer Science (MASc)	Montreal, QC, Canada Expected May 2023
EMU	Electrical & Electronics Engineering (MSc) **Thesis Topic:** Image Super Resolution and Sparse representation via dual dictionary learning	Famagusta, TRNC 2014 - 2017
IKIU	Electrical & Electronics Engineering (BSc)	Qazvin, Iran 2008 - 2013

Selected Projects

Software design patterns Fall 2022   Github repository link

Java application for rental management system
Topic: A piece of software for rental property management company
Patterns: MVC, Factory, Singleton, Observer patterns combined with Java unit testing framework JUnit (And JavaFX)
Language: Java

Natural Language Processing Fall 2022   Github repository link

Sentiment analysis of sentences with featured grammar analyzing their sentiment bearing named entities
Algorithm: Feature-based Earley's chart parser
Language: Python   library: nltk

Machine Learning Summer 2022   Github repository link

Performance comparison of Random Forest regression algorithm in Java vs Python
Data: House price median in Montreal area
Libraries: Python sklearn, Java tribuo

Elastic Search and Kubernetes Summer 2022   Github repository link

Distributed search engine implementation using ElasticSearch and Kubernetes
Data: Reported crimes to the NYPD between 2006 and 2019

Deep Learning Winter 2021   Github repository link

Time series generation using VAE-LSTM and its application in anomaly detection
Language: Python   Library: Keras

Job Experiences

Software Engineer Semra Ltd	**Image processing-based PE pipe corrosion detection** • Technical investigation to produce reports and documentations to senior management • Contribute to the software development team to improve accuracy of the software	Famagusta, TRNC Oct 2016 – Jun 2019 (2 yrs 8 mos)
C Developer IKIU	**Embedded system implementation using C** • Wrote instructions received via USART serial connection • Reduced memory usage by decreasing dependencies on global variables, stack, and the heap	Qazvin, Iran Jul 2013– Sept 2014 (1 yr 2 mos)
Embedded Engineer Tak Flour Co	**Distributed sensor network** • Deployed and installed sensor system in flour silos' site • Wrote instructions to connect humidity sensors to master system via RS-485 using C	Tehran, Iran Apr 2012– Jul 2013 (1 yr 3 mos)

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Skills

Programming languages

Proficient: Java, Python, C, JavaScript, SQL, CSS, MATLAB   Familiar: C++, RUST, PHP, HTML

Frameworks and DB programs

Proficient: Spring boot, JavaFX, JUnit, MongoDB,

Tools and libraries

Proficient: Scikit-learn, NumPy, NLTK, Keras, Tribuo, Kubernetes, Kibana, Logstash, NodeJS, React, Git,

Report writing

Proficient: Microsoft Office | LaTeX

Certificates

Data structure and algorithms: Deep dive using Java		Udemy Jan 5, 2023
Ethical behavior and academic integrity		Concordia Sept 6, 2022
Java database connection: JDBC and MySQL		Udemy Jul 2, 2022
Real-world MySQL design and management 2022		Udemy Jun 29, 2022
Full stack development, HTML, CSS, React, NodeJS		Udemy May 13, 2022

Teaching Experiences

Logic Design	Teacher assistant	Concordia University, Montreal Sept 2022 – Dec 2022
Linear Algebra	Private tutor	Montreal, QC, Canada Sept 2020 – Jan 2021
Stochastic Processes	Private tutor	Montreal, QC, Canada Jan 2021 – May 2021
Linear Algebra	Teacher assistant	EMU, Famagusta, TRNC Oct 2015 – Sept 2016

Language Skills

English	**French**	**Turkish**	**Persian**
Full professional proficiency	Elementary proficiency	Professional working proficiency	Native