

Pouya Bisadi

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Creative open-minded professional with over 12 years of CS and software development experience.

- Solid knowledge of software engineering development methodologies and leadership soft skills
- Spearheaded multiple system analysis, design, and implementations from the database to UX
- MCS in spatial data structures with a strong mathematical background
- Analytical thinker, creative and research-base problem solver

Kinaxis - Senior MLE

Feb 2020– Present

Python, Docker, K8s, Argo, Github, Spark, DataBricks

- Define and oversee AI solutions architectures, release processes and inter-team agreements, as a Architect Guild member (impacting ~37 MLEs dev style)
- Generalize demand sensing solutions to be scalable, robust and configurable in order to reduce onboarding time and hence expand the market. (6 markets, ~5-100M daily forecasts)
- Build out and maintain the “ML SDK”: a scikit-learn compatible collection of python packages and code scaffolds used internally (~15K codeline add/delete)
- Collaborate with data scientists to solve and implement new business problems and use-cases

Aviva Canada - Machine Learning Engineer

Jan 2019 – Feb 2020

Python, PostgreSQL, Git, Dataiku, Scrum Master

- Designed and maintained of prediction services such as:
 - Driver Convictions (increase the scope from \$0.5 million to \$20 million)
 - Customer Lifetime Value (reduced the prediction time by 20x)
 - Automobile Insurance Claim Repair Cost
- Helped the team grow to triple its size as a hiring committee member
- Architected end-to-end data pipelines and data feeds

Klick Health - Application Developer / Innovation Lab Consultant

Apr 2016 – Jan 2019

ETL, MS SQL, PostgreSQL, C#, WCF, Git, Rake, IBM Silverpop

- Proposed a method for estimating the 3D model of the great intestine based on a single x-ray photo using a genetic algorithm.
- End-to-end development of data-driven CRM solution systems: from architecture and design through development to deployment and maintenance.
- Data feeds architect design, platform configuration, and components needed to integrate with web sites and running complex automated email campaigns.
- Data Analysis performance improvement by materializing views and implementation of consumer segmentation.

Please see the last page for older work experiences

SIDE PROJECTS AND OTHER EXPERIENCES

Rescute (ongoing) : A crowdsourced animal rescue platform to let users participate in or donate for steps of an animal rescue process i.e. to locate, transport, cure and shelter the animals in need. ([repo](#))

Auto Room View Generator: Developed an automation image processing tool to recognize rugs in raw images, crop them, fix their perspective and show them in different rooms for presenting to the online customers.

Matlab academic projects: Image Stitching, Neural Networks for Stock Market Prediction, Principal Component Analysis for Object Classification, etc.

3D Viewer: Developed graphics engine using a color polarization technique for rendering objects in 3D.

Auto Mesh Generator: Designed an algorithm and developed the application for generating quadratic meshes required for finite element analysis.

Designed, developed and administered the website of 9th Annual CNSR 2011 Conference

Freelance Graphic Design

EDUCATION, PUBLICATIONS AND ACADEMIC AWARDS

2012 Master of Computer Science

University of New Brunswick (UNB) -
Canada

- **A Distributed Spatial Data Structure**: Used a p2p random DS (Rainbow Skip Graph) to create a fault-tolerant distributed spatial DS for performing orthogonal range searches.

2009 Bachelor of Software Engineering

Shahid Beheshti University - Iran

- **Image registration using Radon transform**: Used RADON transform to extract line features of images for aligning pictures one based on the other (Application Ex: Camera Panorama)

Two-time winner of the Khawrazmi National Innovation (IROST) Award (Iran 2002 and 2003)

Nationwide University Entrance Exam, Ranked in the top %0.2 among 0.5 million participants, Iran, 2003.

Publications: <http://pouyabisadi.weebly.com/publications.html>

Please see the next page for older work experiences

Citi Group - Application Developer and System Analyst

June 2014 – March 2016

WS, WPF, MVVM, OOP/D, C#, Blend, MS Design

- Developed a tool for calculating and presenting security market opportunities to sales and traders. (chosen in the top 5 strategic products of Citi Technology Group in 2014)
- Cross-team UX and graphical design consultation

Livingston Intl. - Software and Framework Developer

Nov 2012 – Jan 2014

WS, WCF, Entity Framework, SQL, MVVM, WPF, OOP/D, C#, Reflection, T4, BizTalk, AOP

- Implemented WCF web services to parse/create brokerage messages. Made tools to read documents to auto-generate classes by T4.

Alcatel-Lucent Genesys Labs - Software Developer (Co-op)

Sept 2011 – Jan 2012

Web Service, REST, WCF, OOP/D, C#, Reflection, Design Patterns, SharePoint, Web Widgets

CARIS Universal Systems - Algorithm Designer (Co-op)

Sept 2010 – Jan 2011

Agile/Scrum, Jira, TDD, Computational Geometry, C++, ISO19107 Spatial Scheme standard

- Designed an efficient algorithm and developed a tool library to calculate the minimum distance between two geometrical objects with millions of vertices.

Parsoft Studio - Founder, Software Developer & Database Design Lead

May 2005- Sept 2009

VB/C# .NET, SQL, Data Layer, Table Adapter, Relational Calculus/Algebra, UX, OOD

- Analyzed multiple systems and businesses, defined data models (Chen/UML diagram), designed and normalized databases (Triggers, Constraints, MS SQL 2000) and developed the data layer (VB/C# .NET, Table Adapters) of Windows and web applications. Ex: Provided instance search for MS SQL database of an online bookstore with more than 2,000 publishers and millions of books.
- Provided a customer loyalty statistical algorithm
- Produced Production, Sale and Inventory Management applications