Aleksandar Lazarevic

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Summary

Software Engineer and Senior AI Expert with rich programming skills.

Took part in development of many Web site, Desktop App, Mobile App, and AI products including Online betting game, Mobile game, Speech Processing, NLP, Image Processing. Well-versed in numerous programming languages including C++/C#, Java, Python, Objective-C, Qt, PHP, ASP .NET, React JS. Strong background in management of Project and Schedule. Self-starter, self-driven, self-motivated individual with the vision of helping businesses grow and meet targets

Skill Highlights

- **Project Management**
- **Rich Deep Learning Experience**
- **Rich Windows App Development**
- **Strong Math Knowledge**
- **Web Server Management**
- **Strong Reverse Engineering**
- **Strong Complex Problem solver**
- **Deep Understanding of MVVM**

Experience

Software Engineer

- Took part in the development of File Security, USB Security, Print Controller Systems. (C++)
  (1/2006 - 9/2009)
- Took part in the development of a Multimedia broadcasting system for Education. (C#, VLC)
  (1/2010 - 7/2010)
- Took part in the Development of a Drug Management System. (JSP, JavaScript, MySQL)
  (3/2014 - 7/2016)
- Reverse Engineering Online MMORPG Game. (IDA, C++, API Hooking)   (2017/4 – 11/2018)
- Development and Management of betting sites. (CodeIgniter 3 and 4, React, Java, MySQL)
  (6/2017 – 10/2019)
- Development of an Audio Library Management Tool on Windows and Mac. (C#/WPF/Avalonia, Objective-C)   www.baseheadinc.com (11/2017 - 10/2021)
- Development and Management and DDOS defense server. (Node.JS, Cloud Flare API)
  (5/2018 – 10/2019)
- Development of some Android/iPhone projects using Xamarin, MAUI, Avalonia. (C#, Java)
  (11/2021 - 1/2023)
- Development some Android App (Unity3D, Unreal, Cocos2D, Cocos Creator, C#, C++)
  (11/2019 – 7/2022)
- Development of a Track Management System called TrackBoss. (C#/WPF/Syncfusion)
  (1/2023 - 5/2023)
- Reverse Engineering C# Application(DnSpy, C#, C++).   (4/2023 – 6/2023)
- Development of a Robot Remote Control System with RTMP streaming and Remote Camera Control functions. (QT)   (3/2023 - 7/2023)

AI Expert

– Computer Vision

- Development of a Diver Sleep Detection System and a Face Recognition Project. (OpenCV, dlib)

  (1/2013 - 2/2014)
- Development of a Passport Recognition and Book Cover Recognition and other OCR projects. (OpenCV)

  (4/2014 - 1/2015)
- Development of a Video Stabilization System using MeshFlow. (C++)

  (8/2020 - 12/2020)

– Speech Processing

- Took part in the development of ASR(Automatic Speech Recognition) System. (Kaldi, Sphinx, DeepSpeech)

  (10/2014 - 11/2016, 10/2022 - 1/2023)
- Took part in the development of a Speech Emotion Recognition System using LDA model.

  (4/2016 - 10/2016)
- Study on Speaker Diarization Methods in the meeting room. (Lium, NMF, Pyannote)

  (12/2016 - 11/2017, 5/2022 - 7/2022)
- Took part in the development of Speech Source Separation System using SASEGAN, Metric-GAN.

  (9/2020 - 12/2021)
- Took part in the development of some TTS/Voice Cloning Projects. (VITS, FastSpeech2, Mellotron + Hifigan, Tortoise TTS)

  (12/2021 - 4/2023)

– Natural Language Processing

- Development of NMT(Neural Machine Translation).

  (8/2010 - 12/2012)
- Research on some Text Emotion/Sentiment Recognition Methods.

  (1/2020 - 8/2022)
- Development of Chat-bot for stress relief and Chat-bot for product description. (Spacy, ChatGPT)

  (9/2022 - 1/2023)

Education

Bachelor of Science: **Mathematics** - 2006
University of Novi Sad, Serbia

Languages

English

Certifications

Programming Languages: **C++/C#/Python/Objective-C/Java/PHP/JavaScript/QT/Matlab**
Deep Learning Framework : **PyTorch, TensorFlow, Keras**