Alexiel Mejias

Senior Research Software Engineer
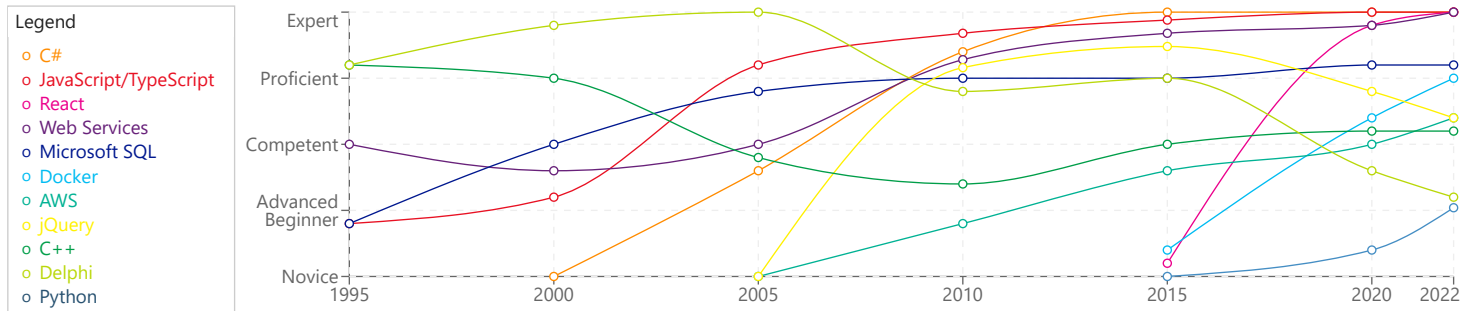
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REMARKS

- Full stack senior software developer with many years of experience. Working hands-on, from traditional to cutting-edge technologies, building professional products from scratch to production level.
- With a wide range of applications and tools under my belt, I've built professional software applications that have helped a start-up grown into a multi-billion-dollar enterprise.
- At the core of my DNA, you'll find genes associated with engineering and software development.
- In my spare time, I write code to automate tasks at home, from the alarm system to data analytics for my drone flights.
- Also love photography and building stuff with my hands.

Most Relevant Technical Skills - Historical Trend

Legend
- C#
- JavaScript/TypeScript
- React
- Web Services
- Microsoft SQL
- Docker
- AWS
- jQuery
- C++
- Delphi
- Python

TECHNICAL SKILLS

Languages
C# (17+ years), C++ (27+ years), Delphi (34+ years), JavaScript/TypeScript (27+ years), Python (5+ years)

Development Frameworks and Tools
.NET Core (5+ years), ASP.NET (14+ years), Arduino, JSON (9+ years), NodeJS (5+ years), Unit Test (4+ years), XML (29+ years), gRPC

Communication Frameworks
RESTful API (7+ years), SOAP API (5+ years), Serial Communication (12+ years), TCP/IP (20+ years), Web Services (27+ years)

Web Frameworks
ANTD (5+ years), Bootstrap (5+ years), CSS/CSS3/SCSS/LESS (14+ years), D3.js, MVC (5+ years), Material Design (5+ years), React (7+ years), Redux (7+ years), jQuery (14+ years)

Database and Database Frameworks
EF/EFCore (2+ years), Interbase (7+ years), Microsoft SQL (34+ years), MongoDB (7+ years), MySQL (5+ years), OrmLite (5+ years), PostgreSQL (5+ years), SQLite (5+ years)

Cloud, Services and Micro-Services
AWS (12+ years), AZURE (5+ years), Dapr (5+ years), Docker (7+ years), Kafka/KafkaStream (5+ years), Kubernetes (5+ years), RabitMQ (5+ years), Windows Services (14+ years)

Development Practices and Tools
Agile (9+ years), Azure DevOps (5+ years), Git (7+ years), Octopus (5+ years), SVN (9+ years), TeamCity (7+ years)

Reports and Data Mining
DevExpress (9+ years), Microsoft Report Builder (7+ years), ReChart (7+ years), ReportBuilder (7+ years), Tableau (5+ years), TeeChart (7+ years), Yellowfin (5+ years)

Media Tools
Adobe Photoshop

Authentication/Authorization Frameworks and Tools
Auth0 (5+ years), JWT (9+ years), OAuth 2.0 (9+ years), SAML 2.0 (9+ years), Windows Active Directory (2+ years)

Others
SpaCy (5+ years)

MOST RELEVANT WORK EXPERIENCES

RLDatix (Previously known as RL Solutions and Radicalogic, Inc.) (rldatix.com) │ Toronto, Canada

- Worked at this software company for 21 years. As employee number 7, I've worn multiple hats to help to grow the company into what it is today.

Senior Research Software Engineer
Nov 2017 - Feb 2022

- Connected Platform Portal - A module to seamlessly integrate all applications from various acquired companies.
  Environment: .NET Core, ANTD, Auth0, Bootstrap, C#, CSS/CSS3/SCSS/LESS, JWT, JavaScript/TypeScript, NodeJS, OAuth 2.0, RESTful API, React, SAML 2.0

- Machine Learning Assistant - A module that allows end-user access to AI analytics tools. This was an IRAP/SRED project.
  Environment: .NET Core, ANTD, ASP.NET, C#, CSS/CSS3/SCSS/LESS, Docker, JavaScript/TypeScript, Microsoft SQL, NodeJS, Python, RESTful API, RabitMQ, ReChart, React, Redux

- Time Series - An AI module that adds a time dimension to report, allowing users visualize trends This was an IRAP/SRED project
  Environment: .NET Core, ANTD, ASP.NET, C#, CSS/CSS3/SCSS/LESS, Docker, JavaScript/TypeScript, Microsoft SQL, NodeJS, Python, RESTful API, RabitMQ, ReChart, React, Redux

- NLP - An AI module to automatically fill up values on a form based on the text description of the event. This was an IRAP/SRED project.
  Environment: .NET Core, ANTD, ASP.NET, C#, CSS/CSS3/SCSS/LESS, Dapr, Docker, JavaScript/TypeScript, Microsoft SQL, NodeJS, OrmLite, Python, RESTful API, React, Redux, SQLite, SpaCy

- Worked on Containerization of the Lead North American platform for Patient Safety, Patient Experience and Risk Management Web App and the Dashboard.
  Environment: .NET Core, ASP.NET, C#, CSS/CSS3/SCSS/LESS, Docker, JavaScript/TypeScript, Kubernetes, Microsoft SQL

- Upgraded services to .NET Core to run in Containers - AWS and AZURE.
  Environment: .NET Core, AWS, AZURE, Azure DevOps, C#, Dapr, Docker, Kafka/KafkaStream, Kubernetes, Microsoft SQL, OrmLite, SQLite, Windows Services

Development Team Leader
Feb 2015 - Nov 2017

- Worked on the Reports Dashboard Client-Side Editor.
  Environment: ASP.NET, C#, CSS/CSS3/SCSS/LESS, DevExpress, JSON, JavaScript/TypeScript, Microsoft SQL, RESTful API, React, Redux, XML, jQuery

- Worked on a module to facilitate the transfer of data from the RLDatix platform to external Patient Safety Organizations and customizations to export data to PSRS, NDNQI and others.
  Environment: ASP.NET, C#, JSON, Microsoft SQL, RESTful API, Windows Services, XML

Software Architect
Aug 2013 - Feb 2015

- Worked on the GOV version of the application, used across the country of Denmark by the general public and in all hospitals.
  Environment: ASP.NET, C#, CSS/CSS3/SCSS/LESS, JSON, JavaScript/TypeScript, Microsoft SQL, Windows Services, XML, jQuery

- Worked on the Pharma version of the application, implemented at all CVS and Walmart pharmacies in the United States.
  Environment: ASP.NET, C#, CSS/CSS3/SCSS/LESS, JSON, JavaScript/TypeScript, Microsoft SQL, Windows Services, XML, jQuery

- Built the Federated Authentication module.
  Environment: ASP.NET, C#, CSS/CSS3/SCSS/LESS, JSON, JWT, JavaScript/TypeScript, OAuth 2.0, SAML 2.0, Windows Active Directory, XML, jQuery

Senior Software Developer
May 2008 - Aug 2013

- Worked on RL6, the company's fully web-based application that replaced its desktop client version.
  Environment: ASP.NET, C#, CSS/CSS3/SCSS/LESS, JavaScript/TypeScript, Microsoft SQL, SOAP API, XML

- Built the web-based reports application. This was an IRAP/SRED project.
  Environment: ASP.NET, C#, CSS/CSS3/SCSS/LESS, DevExpress, JSON, JavaScript/TypeScript, Microsoft SQL, SOAP API, XML, jQuery

- Worked on the Alerts system This was an IRAP/SRED project.
  Environment: C#, JSON, Microsoft SQL, Windows Services, XML

- Built the first HL7 Query on demand system.
  Environment: C#, JSON, Microsoft SQL, SOAP API, Windows Services, XML

- Built the Reports Dashboard Viewer.
  Environment: ASP.NET, C#, CSS/CSS3/SCSS/LESS, DevExpress, JSON, JavaScript/TypeScript, Microsoft SQL, XML, jQuery

Software Developer
Apr 2001 - May 2008

- Worked on Forms and Info center for the Risk Module and Feedback Module.
  Environment: Delphi, Interbase, Microsoft SQL

- Built the desktop Report Center.
  Environment: Delphi, Interbase, Microsoft SQL, ReportBuilder, TeeChart

- Built Report Wizard. This was an IRAP/SRED project.
  Environment: Delphi

- Worked on the first Web version of the application.
  Environment: Delphi, Interbase, JavaScript/TypeScript, Microsoft SQL

- Build the first HL7 message listener.
  Environment: Delphi, Interbase, Microsoft SQL, TCP/IP

- Built the first reports web viewer.
  Environment: Delphi, Interbase, JavaScript/TypeScript, Microsoft SQL, ReportBuilder, TeeChart

BroadView Software Inc (linkedin.com/company/broadviewsoft)

Software Developer
Dec 2000 - Mar 2001

- Built front-end forms and server communications using COM objects.
  Environment: Delphi

International work experience

Software Developer
Jul 1988 - Aug 2000

- Automation of the International Telegraphic Centre of Cuba (CLN) (1999).
  Environment: Delphi, Microsoft SQL, Serial Communication, TCP/IP, XML

- Development and installation of software needed to collect, redistribute and display sports scores and medals records for journalist in Peru Bolivarian Games (1997), Arngentina Pan-American Games (1995), El Salvador Central-American and Caribbean Games (1993) as well as many others similar sporting events in Cuba.
  Environment: Delphi, Serial Communication, TCP/IP, XML

- Developed software and hardware to replace outdated mechanical teletypes by a computer (1992).
  Environment: Delphi, Serial Communication, XML

- Developed smart sports viewer to display relevant information for journalist and news coverage (VIDEOTEL System) (1991).
  Environment: Delphi, Microsoft SQL, XML

- Automation of the National News Agency for the reception and classification of international news feeds (1991).
  Environment: Delphi, Microsoft SQL, Serial Communication

HOBBY PROJECTS

Resume Builder

Generates personal resumes allowing for dynamic changes for different view styles: http://nexus-solutions.org/resume/.
Source code available on GitHub: https://github.com/alexielm/ResumeBuilder.
Environment: .NET Core, ANTD, C#, CSS/CSS3/SCSS/LESS, JavaScript/TypeScript, NodeJS, RESTful API, React

Reactor Demo

reactor is a very small entity that helps keep components up to date with the changes done on a global data set they register to: http://nexus-solutions.org/reactorDemo/".
Source code available on GitHub: https://github.com/alexielm/reactor-demo.
Environment: ANTD, CSS/CSS3/SCSS/LESS, JavaScript/TypeScript, React

DJI Drones Flight Log Viewer

Shows DJI drones flight log on a Google map: http://www.nexus-solutions.org/dji/.
Download example DJI drone log file for testing: http://www.nexus-solutions.org/DJI_Logs/DJIFlightRecord_2017-08-14_[14-58-22].txt.
Environment: .NET Core, ANTD, C#, CSS/CSS3/SCSS/LESS, JavaScript/TypeScript, NodeJS, RESTful API, React, gRPC

Web Based Spherical 360 Photo Viewer

Source code available on GitHub: https://github.com/alexielm/Html360Viewer.
Demo version: http://www.nexus-solutions.org/Html360Viewer/Pano.html?http://www.nexus-solutions.org/Html360Viewer/VR/Photo360.JPG.
Environment: CSS/CSS3/SCSS/LESS, D3.js, JavaScript/TypeScript, RESTful API

RV Level

Software and hardware to help leveling an RV (Recreational Vehicle). The device is accessed from an Android or Apple phone via Wi-Fi and Web App so leveling process can be monitored from the driver's seat.
Environment: Adobe Photoshop, C#, CSS/CSS3/SCSS/LESS, JavaScript/TypeScript, React

Home Alarm System

Software and hardware that monitors doors and windows to send issue and activity notifications and integrates with Amazon Alexa.
Environment: .NET Core, ANTD, Arduino, C#, CSS/CSS3/SCSS/LESS, JavaScript/TypeScript, NodeJS, RESTful API, React, gRPC

EDUCATION

Industrial Control Software Engineering
Sep 1992 - Apr 1999

CUJAE Universiry (linkedin.com/school/cujaeredsocial) | Havana, Cuba
- Graduated with university degree in Software Engineering

College Software Development
Sep 1985 - May 1988

Techical High School - Eduardo Garcia Delgado | Havana, Cuba
- Graduated with a college degree in software development.
- Won first place on national computer software contest.
- Won second place on international computer software contest in Varna, Bulgaria.