RAZ FRIMAN

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Programming Languages

C# • Angular 2/4+ • AngularJS •TypeScript •JavasScript •Java •Swift •Objective-C •Python •VB.NET •PHP •C++ •C • SQL •MATLAB •Assembly •NodeJS •HTML5 •CSS/LESS/SASS • JSON/YAML/XML

Technologies

Docker •ASP.NET • .NET Core •WPF •Windows Forms •Entity Framework • LINQ •ANTLR •MongoDB • Amazon Web Services • Parse • Firebase • MySQL • Reverse Engineering • ElasticSearch • Continuous Integration

Interests

Traveling •Hiking • Photography • Aerial Photography • Cooking • Baking

Awards

- Winner, SMU Big iDeas Business Plan Competition (2015). Grant recipient, Out&About.
- Upsilon Pi Epsilon Engineering Honor Society (2014).
- First Place, Sorting Algorithm Competition (2013). Created fastest word sorting algorithm in SMU's Data Structures class out of over 40 students.

Languages

- English (US Citizen)
- Hebrew

Experience

| Jul 2016 Oct 2017 | **Enterprise Software Engineer II** | **SpaceX** |

- Mentored an intern while we developed a FMECA (Failure Mode Effects and Criticality Analysis) tool for analyzing and detecting single points of failures on the rocket
- Designed and implemented integrations for commands and telemetry into the procedure running and authoring system used by all launch engineers
- Implemented the algorithm that assigns Falcon-9 serial numbers to each SpaceX rocket booster
- Created and implemented framework that tags serial numbers and missions to rocket boosters while taking rocket reusability into account
- Led initiative to introduce and integrate ElasticSearch into the Information Systems department for full-text searching

| Aug 2010 May 2016 | **Software Engineer** | **In-Com Data Systems** |

- Designed and implemented Language Parsing/Analysis Framework *C#, ASP.NET, ANTLR*
  - Currently in use at JP-Morgan, Thompson Reuters, Nissan Motors, Southwest Airlines and other Fortune-500 companies
  - Includes public APIs for use by clients
  - Supports:COBOL, Java, C#, VB.NET, VB6, C, Assembly
  - Created Control-Flow and Data-Flow Analysis Engine

Education

| 2015 - 2016 | **M.S. Computer Science** GPA: 3.7 | Southern Methodist University, Texas |
| 2012 - 2016 | **B.S. Computer Science** *Minor in Mathematics* GPA: 3.83 | Southern Methodist University, Texas |

Projects

ARWorld *Swift, ARKit, C#, .NET Core*

- Created a multiplayer iOS application using ARKit that allows users to collaboratively draw in 3D space using their phones.

TeslaLib *C#*

- Implemented C# Library to access Tesla Motors' API to manage the car's settings.

MyRealEstate *Swift, AngularJS, NodeJS, MongoDB*

- Application to help owners manage rental properties and track investments. Includes functionality for tenants to communicate with their landlord and make payments.

Out&About *Ionic, Cordova, AngularJS*

- Cofounded startup to organize social event for groups. Implemented hybrid mobile application for iOS and Android.

Snap-2-Ask *Objective-C, PHP, MySQL*

- Graphical question/answer service. Implemented iOS frontend and REST API backend.

MapleStoryHooks *C#, C++, Assembly*

- Developed an application to decrypt TCP/IP packets for an online game by reverse engineering the game client's internal network functions and hooking them to intercept unencrypted data.