Andrew Perrins

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SUMMARY

Senior software professional seeks technical leadership position developing for the web.

I care about utility and quality. I believe that good people are a requisite for good software. I am candid and curious, and I look for these traits in the people I work with and the teams that I build. I prefer working with startups.

CORE COMPETENCIES

Languages and Platforms

· Highly proficient in .NET C#, Typescript & Javascript; experienced in Python and Ruby

· Azure development & deployment experience (web-sites, VMs, service-bus queues)

· Deep understanding and familiarity with .NET – BCL, CLR, generics, memory and resource management, threading models, attributes, LINQ, DLR, and async-await/Task-based programming

· Wide range of experience on the ASP.NET web development stack, including Web API, MVC, and SignalR; managed IIS deployments

· Extensive client-side skillset: Angular, CSS/SASS/LESS, NodeJS (Grunt & Gulp, Bower); lodash/underscore, moment, Bootstrap, Zurb Foundation

· Distributed systems design & development with WCF, remoting, Firebase, and Meter

· Experience with dozens of MS and 3rd party libraries and platforms – including ADO.NET, MEF, Autofac, DevExpress, Telerik, Entity Framework, Owin, Moq, Unity, Postsharp

Databases

· Extensive practical experience with relational data, SQL, and ORMs: SQL Server and Entity Framework, SQLite. Experience in query performance tuning, modeling, disaster recovery, replication, reporting, and ETL

· Document (NoSQL) database, and key-value in-memory store and caching experience used in web development with MongoDB and Redis

Leadership, Methodologies, and Product and Team Management

· Mentoring and constructive coaching experience. Experienced in building developer team strength, trust and confidence through candor, transparency with stakeholders, code reviews, and test-focused, continuous-deployment environments

· Have worked and nurtured teams under several variants of agile SDLC methodologies, including Kanban, XP, and running scrums. Practical experience with feature estimation, and project velocity

· Source control, and work-item tracking in VSO, VSTS/TFS, and Git

EXPERIENCE

| 2015 | Co-Founder, *Edmundian LLC* |

Numerex Corp. – Connection Visibility & Analytics

Worked on an IoT/Multiple Virtual Network Operator project, building a real-time connection visibility and diagnostics system

· UDP datagram parsing in C# from Netflow (Cisco router) packets

· Restful Web API for subscription to IMSI (wireless network ID) to trace network connection and data streams, plus SMS packets for internet-connected devices

· Using ServiceStack C# Redis library, built Backplane for SignalR with custom local cache to support cluster scalability in order to handle packet volume behind F5 load-balancer

· Implemented browser client using HTML5/JS technologies (Angular, SASS, underscore)

· Created two Angular directives – packaged in single JS file for easy distribution and drop-in to Numerex's existing portal: JS, CSS and HTML templates were included in single-file distro; CSS dynamically loaded on module run

· Implemented grunt build process to support directive distribution, with separate task for self-hosted site

QuickPacer

· Developed Chrome browser extension to add value to the segment of the legal industry that consumes Pacer (public access to court electronic records)

· Extension coded in Typescript added features into existing government sites such as data retention and file storage

· Injected content script extracts structured data from DOM using JQuery, and persists that data to Web API backend. UI is injected to Pacer site to embellish its Perl-based legacy structure

· Typescript/Angular client-side implementation on public-facing site used for binding and client services

· Cloud: Employed Azure VMs, SQL storage, and File storage for site hosting, binary file persistence, and storage of large volume of bankruptcy filing summary data

· Mongo document storage for full bankruptcy case data using C# driver and employed LINQ to query via Web API when loading specific cases, or summary data on public site

· Source managed in Git (Bitbucket)

· Gained managerial, financial, and marketing competencies in the context of the business of software

2013-2014   Software Architect, *MaxExchange LLC*

MaxEx - Electronic Secondary Market Loan Exchange

· Built and managed co-located team for well-funded startup, and developed architectural foundation. Product is an electronic exchange for trading consumer loans on the secondary loan market. Customers include J.P. Morgan, Chase, and Fannie Mae

· Set up and coded against Azure infrastructure – using VMs, and Service-Bus queues; queues were used for reliable message delivery across 'mostly available' services, and to accept messages from vendors without loss. Used custom WCF binding (NetMesageBinding) to automatically perform queue polling; message publishing was done over a RESTful endpoint

· Implemented HMAC authentication (HTTP header-based) in .NET (commonly used with AWS) to integrate with 3rd party (Adfitech) to authenticate requests for loan data OCR'd from sent documents

· Set up frameworks for MVC and Web API infrastructure including NLog; built out Angular codebase and patterns for team to follow; configured session state service for scalability

· Postsharp used to handle logging and tracing call metrics for reporting

2008-2012   Senior Developer, *Turner Broadcasting System*

Linear Advertising Proposal System Rewrite

· Developed web-based single-page application to manage Turner's proposal system for processing $4B in annual revenue and interfacing with hundreds of ad agencies across the U.S.

· Backend built in ASP.NET Web API, MongoDB, SQL Server

· Integrated with ElasticSearch using "Nest" library or very high performance and scalability search. Also prototyped Lucene.NET before moving to Elastic

· Test shims and stubs brought code coverage to 97% using MS Fakes

· Implemented SRSS packages to support EDI for reporting team

Stewardship System

· Lead development team to build Stewardship application, "Lighthouse" for the company's EDI division, reducing invoicing time, paper waste, re-keying, and electronic delivery of order status through third-party hub

· Implemented three-tier system with WCF front-end, WCF services, and SQL-Server 2008 persistence layer

· Entity framework ORM (DB-first) used at the application layer

· Used MEF (Managed Extensibility Framework) to allow plug-in client-side architecture for other teams to add functionality

· Constructed server code using Autofac Dependency Injection to support mocking interfaces

Marketplace Ad Sales

· Managed development team for four core applications to the company's linear ad-sales systems: reference repository, inventory management, ordering system, and selling-title management

· Optimized SQL server queries and SPROCs for legacy code; added NLog to codebase for troubleshooting

· Enhanced Windows-forms based application with new features, and performance tuning code and uncovering memory leags using RedGate Ants memory and performance profilers

2006-2008   Expert Software Developer, *Turner Broadcasting System*

Crossroad Log and Copy Management, and Spot Scheduler

· Completed spot trafficking project with three-year, forty-person team, to manage all of Turner Broadcasting's linear advertising television spots across more than a dozen networks. Project highlights include: integration with solver platform using CPLEX for placing spots within stringent constraints to maximize revenue and reduce liability; copy) assignment for on-air broadcast via user-defined rules; precise schedule development for down-to-the-second precision in managing on-air log

· Implemented WWF/WCF service to manage workflow of an order and trace spots through to airing date and invoicing

· Heavily SOA using WCF pre-release bits through partnership with Microsoft Connect

· Distributed transactions using MSDTC and WCF calls for financial data

· WinForms and with WPF-controls where necessary implemented with surface-mapping, NInject for testing, all using the MVVM design pattern

· Custom WCF behaviors and bindings for authorization/authentication, and logging

· Hand-written SQL queries for CRUD ops; later replaced with Linq to SQL as it matued

2002-2005   Software Developer, *Cotterman Consulting & McCalla Raymer*

Accurate Docket Sweep

· Developed system employed by several national banks (including Bank of America, and Wells Fargo) to mitigate risk associated with bankruptcy filings in loan portfolios

· Targeted .NET using C# with SQL Server store and SOAP-based (ASMX) services. Developed Windows Forms native client for internal customers, and ASP.NET Web Forms site for firm users

· Wrote Regex-based HTML screen-scrapers

· Built multi-threaded HTTP web-clients – and multiple nodes for scale. Worker nodes coordinated with server using Remoting where nodes were responsible for data retrieval

· SQL server partitioned across servers for scale using distributed partitioned view over the social security number as key

· Built custom WinForms controls for graphing case numbers across jurisdictions and for easily identifying missing cases in repository

· Developed algorithms for identifying individuals in bankruptcy using name-matching algorithms like Soundex

EDUCATION

2002   BS, Computer Science, *Georgia Institute of Technology*