920-544-2466

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**INTERESTS & FLUENT TECHNOLOGIES**

-Owner/creator KineticSim – an Azure HPC-scaling arbitrary fixed precision physics simulator using special relativity.

-Develop and trade securities using my own algorithms & custom-built real-time high data volume trading tools and data sets.

-Created high resolution GPGPU Mandelbrot Image generator using C++ AMP: Windows app store: “Mandelbrot HD Wallpaper”

-Presented on parallelism at [http://newcodecamp.com](http://newcodecamp.com/) 2015 developers’ conference

-Presented at the University of Wisconsin undergrad research convention in Madison, WI.

**Languages**: C#, F#, MSSQL, TSQL, PostgreSql, Java, HTML, Python, Ruby, R, JavaScript, Shell scripting, CSS, PowerShell, C, C++, XML, JSON, XAML

**Frameworks/Technologies**: .NET, MVC, .NET core, Azure DevOps, Azure Storage, Azure Functions, Azure Compute, AWS EC2, AWS S3, AWS Cloudwatch, Docker, jQuery, Entity Framework, MS Test, LINQ-to-SQL, C++ AMP, Alea GPU, WPF, WinForms, Windows Universal (mobile), Azure Networking

**Software**: Visual Studio, JetBrains Suite, Eclipse, Git, Team Foundation Server, K2 Blackpearl, MultiCharts, Trader Workstation, Windows, Linux, VS Code, Pivotal, MS Office, AutoCAD, Subversion, Oracle Agile, NetBeans

**RELEVANT WORK EXPERIENCE**

**Intrinio – Realtime Software Engineer**

Dates: July 2021 – Present

Job Details

- Develop and enhance server software and client SDKs to deliver realtime stock market equities and options data.

- Develop, enhance, and design core REST API and client SDKs with new features for core product.

- Maintain build, test, deployment environment, and infrastructure for CI/CD.

- Greatly enhanced efficiency of client message transport layer implementing byte messaging in place of JSON.

- Design and implement structure, storage, and delivery of realtime options interval data (candlesticks).  
 - Assist customers with planning and troubleshooting high volume realtime applications.

- Maintain operational data, infrastructure, and applications.

**Plan Administrators, Inc. – Developer, Sr. Developer, Sr. DevOps Developer**

Dates: Feb 2016 – July 2021

Job Details

- Develop object-oriented N-Tier .NET Azure applications (web, backend, and data layer) for a 401(k) provider

- Developed a drop-in .NET parallel library to facilitate scaling existing code with minimal impact.

- Design/implement configurable SQL auto-partition management to save TBs of space.

- Transition entire source code to a new source control provider and restructure for best practices (Azure VSTS)

- Design/Implement new automated build and deploy system managing at least 7 environments (Azure Pipelines, SQL, C#)

- Database administrator (MSSQL)

- Design/Implement application monitoring system (N-tier, .NET, MSSQL)

- Design/implement new relational customer document storage system and design the live migration ETL.

- Design/Implement management application to drain-stop recycle load balanced applications with no downtime

- Mentor and code-review developers

- Influence coding standards

- Reverse engineer legacy applications with no source code.

- Research and Prototype new technologies for integration into new or existing projects.

- Lead security remediation project.

- Provide on-call site reliability support

**Plexus Corporation – Programmer / Analyst II**

Dates: July 2014 – Feb 2016

Job Details

- Design and develop global-scale applications using multiple technology stacks in an agile environment

- Design/develop a configurable complex “bill of materials” vendor document ETL application (.NET, MVC, SQL)

- Collaborate with business analysts to define/refine vendor document ETL process.

- Design Real-time data feedback stream for manufacturing floor. (StreamInsight)

- Create executive dashboard for drill-down of Global risk assessment (JS, Google API, .NET, SQL)

- Research and Prototype new technologies for integration into new or existing projects.

- Develop integrations and extensions with Oracle Agile application (Java, Oracle DB, BizTalk)

- Lead project work and mentor small team of developers

- Design and development done under ITAR regulatory requirements.

**Skyline Technologies (Gold Microsoft Partner) –Intern, Full-time Software Engineer Consultant**

Dates: May 2011 – March 2014

Job Details

- Developed and maintained custom client software and websites with the .NET stack and various Microsoft technologies.

- Reverse engineer and upgrade ASP website to ASP.NET

- Spearheading research into Azure capabilities on compute and storage.

- Architect & implement Azure-based ETF trading optimizer. Used workers/scheduler for dynamic scaling before Azure auto-scaled. App featured in a Microsoft keynote presentation slide, in a Microsoft commercial, and a Microsoft white paper was written. (<https://www.appletongrouponline.com/investment-solutions/cleartrend-research/>)

**Subsurface Instruments - Electronics Technician and Line Assembly**

Dates: September 2009 – January 2011

Job Details

- Troubleshoot electronics boards to component level and repair.

- Calibrate and test/certify outgoing and repaired units

**United States Marine Corps — Sergeant - Air Traffic Control Electronics Communications Technician (MOS 5954)**

Dates: July 2002 - July 2007

Job Details

- Secret clearance - October 2002 US Marine Corps

- Crew Chief, Barracks Manager, Postal Room Manager, and HMMWV and 7-ton driving licenses

- 1st place battalion fitness competition (2006)

**EDUCATION**

**Microsoft Certified Professional (2017)**

**University of Wisconsin – Green Bay and Madison**

Bachelor of Science Senior in Computer Science Degree after switching from Electrical Engineering

September 2007 – Present

**Naval Air Technical Training Center - Pensacola, FL**

Aviation Electronics School – MOS 5954

January 2003 - December 2003 (Meritoriously promoted at top of class)

**HOBBIES**

**San Diego Rock N’ Roll Marathon (2007)**

**INBA/PNBA Natural bodybuilding competition (2007)**

**Battle of the Rhinos II strongman competition (2021)**