CLAY ROBERT SMITH

Senior Software Engineer | Full-Stack Architect *Aston, PA*

https://www.linkedin.com/in/clay-smith-b7729826/ | *https://github.com/claysmith*

PROFESSIONAL SUMMARY

Strategic Lead Developer with 17 years of experience architecting scalable enterprise solutions. Expert in the **.NET ecosystem (C#, ASP.NET MVC, Web Forms)** and modern front-end frameworks like **React and TypeScript**. A versatile engineer with a proven track record of navigating complex migrations—most recently transitioning enterprise applications between **React and Sencha Ext JS**. Deeply proficient in **SQL Server, Oracle, and PostgreSQL**, with specialized expertise in **Audio Programming (C++/JUCE)**. Committed to Agile excellence and delivering high-performance tools that bridge the gap between complex data and intuitive user experience.

TECHNICAL SKILLS

- **Languages:** C# (.NET 10), JavaScript (ES6+), TypeScript, C++ (17/20), VB.NET, Perl, Python.

- **Web & UI:** React JS, Sencha Ext JS, ASP.NET MVC & Web Forms, HTML5/CSS3, DevExpress.

- **Audio & Systems:** JUCE Framework, Cmajor, Max for Live (Max/MSP), MIDI/DSP, GitHub Actions (CI/CD), macOS Notarization.

- **Databases:** MS SQL Server (2008–2017), Oracle (11g/12c), PostgreSQL, MySQL, EAV Data Modeling, LINQ, Entity Framework.

PROFESSIONAL EXPERIENCE

THAYER DISTRIBUTION | *Aston, PA* **Fullstack Web Developer** | Feb 2024 – Jan 2026

Architected mission-critical internal applications for a major regional wholesaler.

- **Framework Transition:** Helped with the strategic migration of internal tools from **React to Sencha Ext JS** to handle complex, data-intensive enterprise requirements.

- **Fullstack Architecture:** Engineered high-performance features using a **.NET/C#** backend and **PL/SQL** databases.

- **API Integration:** Designed and consumed RESTful APIs to synchronize internal office logic with 3PL and inventory management services.

- **High-Throughput Image Processing:** Architected custom CLI utilities for bulk image transformation and database synchronization featuring configurable parallelism to optimize processing speed based on available system resources.

FLAGSHIP CREDIT ACCEPTANCE | *Chadds Ford, PA* **Application Developer** | Sept 2015 – Jan 2024

Optimized enterprise-level financial and internal management systems for a leading auto finance provider.

- **Performance Optimization:** Overhauled the internal Issue Management System (IMS), achieving a **10x performance increase** in page load speeds.

- **Code Refactoring:** Refactored the corporate HR portal, **reducing the codebase by 70%** while expanding functionality using **DevExpress**.

- **Cost Savings:** Developed a custom **Contract Image Viewer** to replace an expensive commercial system, saving significant licensing costs.

- **Automated Audit Compliance:** Engineered a custom C# solution to extract and transform raw data into auditor-ready documentation, significantly reducing manual preparation time and ensuring 100% reporting accuracy.

VIZANT TECHNOLOGIES | *Chadds Ford, PA* **Software Development Consultant (Contract)** | June 2015 – Sept 2015

- Engineered an automated pipeline to extract financial data points from PDF documents into an **EAV data model** in **SQL Server 2012**.

ELECTRONIC TAX SYSTEMS | *Aston, PA* **Full Stack Software Engineer** | Sept 2011 – June 2015

- **Strategic Migration:** Led a 3-month initiative to port the **TaxWizard** suite from **Oracle 11g to SQL Server 2008**.

- **Database Engineering:** Developed complex stored procedures and triggers in both **PL/SQL and T-SQL**.

SINGLE DIGITS | *Manchester, NH* **Software Developer** | Sept 2009 – Sept 2011

- **CTO Reporting:** Served as core in-house developer; engineered multi-threaded **Java** server-side applications for **SNMP** network monitoring and hardware automation.

EDUCATION & RESEARCH

WINONA STATE UNIVERSITY | *Winona, MN* **BS in Computer Science** | 2009

- **Publication:** *"An Automated Test Generation and Execution System,"* Proceedings of **CAINE-2007**.

- **Publication:** *"Analysis of Using Force Fields with a Pen Input Device,"* **ISCA 2009**.