ANDREW TOMCZAK

PROFESSIONAL SUMMARY
Results-oriented part-time software engineer with a strong analytical mindset and expertise in test-driven full-stack web, AI, graphics, 3D, and microchip software development.

TECHNICAL SKILLS
- Programming Languages: JavaScript, Python, Bash, MS PowerShell, Lua, GDScript, PHP, Pascal, Java, C, C++, VBA, C# .NET
- Databases: SQL Server, PostgreSQL, MySQL, Oracle, CSV, JSON, MongoDB, CouchDB
- Markup Languages: HTML, CSS, UML, XML, XHTML, Markdown, YAML, JSON
- JavaScript Libraries: Vue.js, Angular, jQuery, Node.js, Let's Encrypt
- Protocols: REST, MVC, TCP/IP, UDP, DHCP, BIND DNS, NAT, FTP, SFTP, SSH

HIGH LEVEL SOFTWARE
- Development Environments: Visual Studio, Godot 3 & 4, Roblox, GIMP, Blender, FreeCAD, Cura
- Web Service Platforms: Docker, Nginx, FastAPI, MS IIS, Express.js, Elasticsearch, Tomcat, Apache
- Source Control: Git, Subversion, MS TFS
- Package Management: npm, Maven, NuGet, pip, apt-get, yum, pear
- Report Servers: JasperReports, MS SQL Server Reporting Services
- Operating Systems: Linux (Ubuntu & Red Hat), Microsoft Windows & Server, macOS, Android
- Database Environments: SQL Server Management Studio, MySQL Workbench

PROFESSIONAL EXPERIENCE

AJ Surf Co, Boca Raton, FL   **Aug 2020 – Present**
Founder & Creative Director
- Launched an entrepreneurial startup specializing in software engineering, multimedia, and marketing.
- Developed Aurora Realms, a nostalgic 2D video game.
- Partnered in the development of Asteroid Blaster Space Ship Duel, a Roblox 3D video game, handling software development.
- Designed and developed a microservices website using Vue.js, WordPress, Python FastAPI, Docker, and Nginx to optimize user experience and performance for the Aurora Realms Video Game.
- Currently creating marketing materials and 3D-printed objects to promote video games and YouTube content.

Mergermarket, Fort Lauderdale, FL   **Oct 2010 – July 2020**
Sr. Web Application Engineer
- Consistent cross-functional collaboration, with financial professionals. Provided internal software for enhanced productivity, contributing to a company valuation increased from $80m to $1.7b.
- Provided comprehensive prototypes and documentation of BWICs, CRE & Pipeline software systems for executive board approval.
- Developed data acquisition software which collects Seeking Alpha RSS and Earnings Calls data feeds, automatically on a timer, expanding the Debtwire.com product line.
- Engineered and developed a data collection daemon, in Java, reducing Financial Analysts time demands, providing enhanced team production capability.
- Developed VBA Microsoft Office macros in MS Excel for Financial Analysts, and Email form letters, alleviating the workload, and increasing productivity.
- Led software development for PDF and Email scraping, QA processes, and seamless data imports into SQL Databases, enhancing team effectivness and data integrity.
- Managed the migration of source code repositories across Subversion, MS TFT, & GIT source control environments, ensuring smooth transitions and consistent source code inegrity.
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State of VT Agency of Natural Resources IT Department, Waterbury, VT   **Jul 2006 – Jul 2010**
System Developer II / .Net Programmer
- Partnered with geography professionals to develop solutions mitigating the effects of natural disasters caused by human encroachment on waterways.
- Migrated the Vermont Stream Geomorphic Assessment Data Management System (VT SGA-DMS) from ColdFusion to MS Visual Basic .NET, enhancing functionality and performance.
- Converted all real-time reports from ColdFusion Report Builder to Microsoft SQL Server Reporting Services (SSRS).
- Optimized SQL Server databases by improving the schema, queries, and indexing, boosting performance.
- Refactored statistical equation algorithms, reducing labor hours for geography professionals by 18 hours per week.
- Developed a bitwise quality assurance system with comment overrides to improve data integrity metrics.
- Implemented a flexible data export feature, allowing users to export real-time information to DBF, MS Excel, and MS Access formats.
- Built a web-based DBF flat-file upload system with QA checks, reducing labor costs and enhancing data quality.
- Collaborated with VT Fish & Wildlife, VT DOT, VT Rivers Geomorphic Team, and UVM to develop a system assessing erosion and sedimentation effects on fish and wildlife near bridges and culverts.

BEAR CODE, Montpelier, VT   **Jul 2005 – May 2006**
Administrator / Java Programmer
- Responsible for internal and external network support, source code repositories, and writing software.
- Conducted System Analysis and wrote Use Cases, Data Models and Functional Specifications for 3 Enterprise level Java applications.
- Wrote Java Internet XML, SOA, database data collection application.
- Wrote Hibernate XML mapping, and Java container classes for the flagship product.
- Enhanced enterprise level Java JfreeChart trend analysis graphs.
- Performed code repository migration from CVS to Subversion.
- Setup Subversion/Apache access security for contractors and in house developers.
- Performed email migration from Sendmail to Qmail.
- Maintained a Linux VPS Email, PHP & Java server.
- Setup software demos of company built server software applications on Laptops for sales representatives along with support manuals.
- Performed Network Support, of LAN with Windows, Apple and Linux workstations, along with a RedHat server containing Subversion, TrackStudio, Tomcat, & MySQL.
- Handled client help desk support, and user manuals, for company software.
- Performed administration and backups of all company data.

ONDO CORPORATION, DAYS INN, Shelburne, VT   **Feb 2000 – May 2005**
Computer Consultant/Night Audit
- Authored user manuals, and established protocols, for reservations and audit software.
- Migrated the hotel software applications from MSDOS 3.0 to 5.0. Then to Windows 3.11, and finally to Windows 98.
- Trained the staff across the system upgrades to use the new Operating Systems and applications.
- Provided consulting service, analysis and design, for the high performance guest WiFi network, providing the ability for the owner and maintenance crew do an "in house" installation and maintenance.

EDUCATION
UNIVERSITY OF VERMONT, Burlington, VT   **2005**
Bachelor of Arts, Major: Computer Science   Minor: Business