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PROFESSIONAL PROFILE

Frontend TypeScript, React, REST API, and database developer with 25 years of experience building web applications.

TECHNICAL SKILLS

- **UI** – Responsive UI design, UX design, and WAI-ARIA accessibility
- **Frameworks** – React, Redux, Ant Design, Bootstrap, Styled Components, and Tailwind CSS
- **Languages** – TypeScript, JavaScript, C#, SQL, Python, and Regular Expressions
- **Build systems** – Vite, Webpack, Vercel, ESBUILD, Rollup, Grunt, and Gulp
- **Web services** – REST API design with Python and Node.js
- **Databases** – SQL Server, MySQL, Postgres, and NoSQL MongoDB
- **Database programming** – Stored Procedures, functions, triggers, indexes, and views
- **Cloud** – AWS, Google Cloud, Azure, GitHub, and GitLab

WORK EXPERIENCE

EVERBRIDGE, Pasadena, CA

10/2019 – 07/2024

Senior Software Engineer II

Responsible for developing both internal and client-facing SaaS applications, dashboards, and visualizations for business-critical decision making. Reported to director of data analytics in the role of chief frontend engineer for the analytics, usage reporting, and business process intelligence teams. Developed the following products:

- **Usage dashboards** – Increased profitability by creating an internal BI analytics web application to measure company costs and set product pricing.
 - Built using **React, TypeScript, Ant Design, Vite, Looker, and Python** for **REST API**.
- **Resilience insights** – Collaborated on the development of a SaaS application to provide real-time risk analysis resulting in new revenue streams.
 - Built using **React, TypeScript, Styled Components, Google Maps, Zustand, Webpack, and Looker**.
- **Location risk assessment** – Developed an interactive mapping solution to visualize location-based risk events and assist in critical decision-making, allowing customers to maximize business operations security.
 - Built using **React, TypeScript, Redux, Google Maps, Bing Maps, Java, and Elasticsearch**.
- **EB Suite usage reporting** – Created a visualization and reporting system to provide customer usage and consumption forecasting, resulting in faster contract renewal rates.
 - Built using **React, TypeScript, Bootstrap, Recharts, Styled Components, Webpack, and module federation** for **micro-frontend design**.

VELODEA, Pasadena, CA

04/2006 – 03/2017

Principal Web Application Developer

Served as solutions architect, programming lead, and database developer for a digital marketing agency. Designed and build over 70 website solutions across a variety of platforms, technologies, and languages for Fortune 500 companies such as Shell, Qualcomm, Sprint, Maserati, Fox, Miramax, ABC, J. Walter Thompson, and Edelman. Reported directly to CEO and managing director.

- **Beechcraft Corporation** (beechcraft.txtav.com) – As a direct extension of Beechcraft IT, duties included web application development, database design, and content management. Responsible for building and maintaining Beechcraft corporate website as well as many applications to support sales and marketing.
 - Built using **ASP.NET, C#, database design, SQL Server, Bootstrap, JavaScript, and jQuery**.

- **Shell Eco-marathon Live** (shellecomarathon.com) – Created social and streaming media platform to serve live coverage of Shell's multi-national Eco-marathon events. The site featured event video, Twitter feeds, online polls, and contest standings. Events were live streamed through the CDN to over 50 countries worldwide.
 - Built using **PHP, My SQL, Live Video Streaming, REST APIs (Facebook, Twitter, and YouTube), HTML, CSS, JavaScript, and jQuery.**
- **Flex Ed** (flexed.com) – Implemented a large-scale learning management system to track and schedule the education of 85,000 students resulting in the two-fold increase of student registrations for education institutions servicing California, Nevada, and Texas.
 - Built using **PHP, MySQL, HTML, CSS, jQuery, stored procedures, triggers, and MySQL functions.**
- **ABC Studios Live Stream** – Designed and built a streaming media platform providing executives and stakeholders the ability to monitor camera feeds at each remote soundstage in real-time through secured web application access.
 - Built using **ASP.NET, C#, Flash, ActionScript, FMS, WMS streaming with F4V, WMV media encoding.**

DEVAWARE TECHNOLOGY SOLUTIONS, La Canada, CA

07/2002 – 03/2006

Founder, Lead Developer

Specialized in .NET and Windows DNA application development for the web and desktop. As founder and lead developer, the role was that of information architect, systems designer, and application developer.

- **Sony VIAO Desktop** – Contracted by Sony to build an advanced kiosk application for nationwide distribution to all Best Buy, Circuit City, Good Guys, and Fry's Electronics stores. The application locked down OS access through registry and group policy modifications while allowing customer interaction with the desktop and suite of Sony applications. Usage statistics were logged, uploaded, and accessed through secure login.
 - Built using: **ASP.NET, ADO.NET, C#, Win32, VB COM, SQL Server, IIS, and Windows registry customization.**
- **Xtreme Desktops Applications** – Developed application framework for a series of Flash-based desktop experiences. Components consisted of **.NET HTTP server applications** to gather usage statistics for upload to the centralized analytics server. Responsible for the custom-built analytics system and test lab with **IIS, ASP.NET, and SQL Server.**
 - Built using **C#, ADO.NET, VB COM, InstallShield scripting, IIS, SQL Server, and test lab methodologies.**

THE VELODEA GROUP AND BLEU22 STUDIOS, Milan, Italy and Los Angeles, CA

07/2000 – 07/2002

Principal Software Engineer

Served as lead developer and director of The Velodea Group's Velotek division with job responsibilities spanning web application development, systems architecture, and network infrastructure. Reported to CEO and VP of product development.

- **VeloTrack** – Designed a SaaS application suite offering behavioral tracking, email marketing, list management, registration, surveying, and demographic-based site usage reporting. VeloTrack boasted the ability to capture millions of page views per day in a manner transparent to the end user. The system was designed to be highly customizable and intuitive to allow non-technical clients the ability to generate reports as well as create surveys and construct email marketing campaigns. All data was made available through HTTP as REST APIs for integration into client applications.
 - Built as **modularized system** developed over two years consisting of equal parts **Google Analytics, Constant Contact, Mail Chimp, WordPress and Salesforce** before those systems existed.
- **VeloTeam** – Built an asset management system that facilitated communication and collaboration between project teams and clients. The system managed user accounts, tracked incident resolutions, and provided automated email notifications. Over 100 customized instances were deployed for clients such as Sony, Miramax, Qualcomm, and Toshiba.
 - The VeloTeam Suite provided capabilities of **Basecamp, Dropbox, JIRA, and GitHub.** It offered **project management, document sharing, version control, bug tracking, client communications, and issue resolution.**

MICROSOFT, Redmond, WA

11/1998 – 06/2000

Release Program Manager

As a key member of Microsoft's product release team, responsibilities included application development, system design, and project management for release of Microsoft product to the marketplace. Reported to director of product release.

- **Release to web** – Built a web application system that served as the primary release mechanism for all products available to Microsoft's download center. The system boasted an average of 1,000 releases per month and tracked workflow, sign-off, QA, and virus scan. All releases were vaulted to a centralized repository within the software release labs and resulted in fulfilling Microsoft's need to release product in under three hours.
- **Media shipment tracking** – Created a system to gather and track all media shipments made to Microsoft's third-party manufacturers. This allowed manufacturing facilities to plan production cycles as well as track the progress of any shipment. The system consisted of multiple SQL Server databases in each of Microsoft's regions of operation. Data was input through a web-based frontend and warehoused three times daily to coincide with the close of business at Microsoft's American, European and Asian operating centers.

Both systems were developed using **multi-tier design architecture** and components were built for reusability following a **component object model**. Additional responsibilities ranged from **systems analysis, application prototyping, database design, user-interface design, functional specification, and technical documentation**.

ADDITIONAL WORK EXPERIENCE

PHILLIPS RESEARCH LABORATORY, Albuquerque, NM

10/1997 – 10/1998

Web Application Developer

Hired as lead intranet developer for the U.S. Air Force's Phillips Research Lab at Kirtland Air Force Base. Job functions involved design and implementation of all **web-based client and server applications** as well as **systems analysis, database programming and graphic design**. Technologies used included **ASP, SQL, Java and ActiveX development**. Also responsible for **NT, IIS, and SQL Server administration and configuration**.

INTEL, Rio Rancho, NM

06/1997 – 10/1997

Web Application Developer

Contracted to design and develop a web-based reporting system responsible for generating statistical information for Intel University. Utilized **ASP, SQL**, and custom developed **ActiveX DLLs**. The system was implemented worldwide upon its completion.

CERTIFICATIONS

React Nanodegree (React, Redux, and React Native), UDACITY (2019)

- Six-month term

Google Mobile Web Specialist Nanodegree, UDACITY (2018)

- Six-month term

JavaScript Algorithms and Data Structures, FCC (2017)

- 300 hours

Responsive Web Design, FCC (2017)

- 300 hours

EDUCATION

Bachelor of Science, Computer Information Systems, DEVRY UNIVERSITY, Pomona, CA (1997)