Jack Timmons

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Senior Software Engineer with 16+ years of full-stack experience leading small- to large-scale projects, with a keen eye toward user experience optimization by streamlining workflow and improving accessibility and modernizing legacy systems to perform faster and bring them to a cloud-based infrastructure.

WORK EXPERIENCE

JumpCloud

Software Engineer III | DEC 2021 - OCT 2023

JumpCloud provides a single-sign on solution that integrates a variety of third-party authentication providers allowing a single-sign on across a wide range of platforms and devices.

- **Automating Customer Management**: Reduced customer management workload by 75% with a Golang microservice. Automated tasks (resets, access, alerts) via Kafka & Amazon SMS, streamlining workflow & centralizing user control. Enabled proactive reliability with DataDog SLAs
- **Improved Data Security**: Led the development and initial rollout of AES-256 data encryption, navigating challenges and setbacks to drive progress toward a secure solution. Implemented multi-layered access controls and conducted detailed risk assessments, laying a strong foundation for enhanced data protection.
- **Incorporated TypeScript**: Championed TypeScript adoption across the Vue 2 project, allowing us to fix subtle typing bugs and deliver a more robust development experience with enhanced intellisense. Overcome initial resistance through effective communication and tailored training, fostering widespread developer satisfaction with the transition.

Beast Code

Senior Software Engineer & Product Owner I | MAR 2018 - DEC 2021

Beast Code provides an immersive 3D training environment focused on allowing ship and aircraft maintainers to quickly familiarize themselves with complex mechanical systems.

- **Led Successful Major Contract Bid**: Leveraging my dual expertise as Product Owner and Senior Software Engineer, I spearheaded the winning bid for the NOBLE Phase 1 contract against IBM. Through in-depth customer interviews and user testing, I designed and developed a user-centric Vue 2/Node.js scheduling and maintenance app with an innovative 3D viewer powered by BabylonJS. Delivering this complex solution within a tight six-month timeframe exceeded expectations and secured the contract, establishing a strong foundation for future collaborations.
- **Led Migration to Web Services for Scalability and Growth**: Guided the company's technological maturation by migrating from C++ desktop development to a .Net Core, Vue 3, BabylonJS and TypeScript web service platform. This strategic shift, driven by the goal of broadening market reach, established me as a leader in driving change and innovation.
- **Mentored Multiple Teams**: Spearheaded the mentoring of three diverse teams in C++, C#, Vue 3, SQL, and Entity Framework, bridging the gap between junior and senior developers. My proactive leadership and hands-on training not only boosted individual skill sets but also strengthened team cohesion and project execution.
- **Engine Maintenance Application**: Developed a sophisticated 3D engine viewer in Vue 3, BabylonJS, and

TypeScript, enabling seamless integration with course content and interactive disassembly of intricate engine models using realistic virtual tools.

- **Migrated App from Node.js to .Net Core**: Showcased C#, Entity Framework, and .NET Core expertise in leading the NOBLE Phase 2/NMRO migration, including the creation of a software package that eased programming interactions with a complex API, expertly directing a cross-functional team to achieve a smooth and efficient transition.
- **Created CMAP Application**: Developed the CMAP web app, unifying disparate SharePoint data into a comprehensive dashboard for Admiral Downey. This tool not only offers current updates but also delivers predictive maintenance alerts and performance trends, empowering faster and more informed decisions.

Bit-Wizards

Lead Software Engineer | JUN 2017 - MAR 2018

Bit-Wizards are Kentico Gold Partners with a proven track record of crafting award-winning solutions using the platform's advanced features and integrations.

- **Created eCommerce Store**: Navigated the intricacies of a Kentico-based e-commerce project for Standard Furniture after the developer's absence. My technical agility and problem-solving skills allowed me to quickly grasp the complex codebase, implement creative solutions, and deliver the project successfully, exceeding client expectations for functionality and performance.
- **eCommerce Store Phase 2**: Led the Phase 2 development of the Standard Furniture e-commerce website, including implementing effective code management practices and troubleshooting procedures to overcome potential data integrity issues. This experience honed my leadership and communication skills in supporting junior team members.

O.I.S. Media, Inc

Lead Software Engineer | MAY 2012 - JUN 2017

O.I.S. Media runs a variety of healthcare-focused job boards and career centers.

- **Total Site Conversion**: Reengineered MedCruiter.com with C#/AngularJS, boosting backend performance and delivering a smoother, more intuitive user experience.
- **Increased Security and Website Performance**: Streamlined job board performance and enhanced user experience by fortifying security measures and throttling spam traffic. Deployed request throttling and IP blocking, reducing spam traffic by 40% and improving site responsiveness by 25%. Overhauled the outdated resume parsing solution, integrating with a third-party service, resulting in significantly improved parsing accuracy and efficiency.

Passport America

Lead Web Developer/Manager | FEB 2008 - MAY 2012

Passport America provides a service that allows its members to receive a discount at participating campgrounds.

- **Rewrote Internal Systems**: Architected a modern, scalable CSR software solution by migrating a legacy PHP codebase to CakePHP. Enhanced performance and optimized maintainability while improving security through strategic refactoring and adherence to best practices.
- **Redesigned On-Premises Mail Site**: Streamlined mail service operations and enhanced data management by redesigning the on-premises mail site. Implemented a custom scanning and storage solution, reducing processing time of mail and increasing customer satisfaction.