

# Thomas Gordon Lowrey IV

Software Engineer / Systems Architect / Server & Database Admin / Manager

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## Summary

I'm a very strong enterprise architect and leader. My primary areas of technical expertise are systems architecture, server management, web development, database administration, and performance tuning. I have extensive experience designing, building, and maintaining highly available, high load front-end and back-end infrastructures.

My depth of technical expertise includes everything from ground-up network topology design, hardware builds, server deployment, server tuning, API development, performance optimization, database administration, development of custom front-end and back-end web applications, enterprise mobile apps, real-time custom business analytics platforms, and much more.

- 16+ years of systems administration experience.
- 15+ years of application development experience.
- 10+ years of systems architecture experience.
- 8+ years of management/leadership experience.
- Excellent written and verbal communication skills.

## Expertise

Industry Knowledge	Cloud Computing, Communication Protocols, Data Architecture, Data Integration, Database Analysis, Data Warehousing, Embedded Development, ETL, Hardware Development, Hardware Diagnostics, Information Security, iOS Development, Linux Server Administration, Network Security, OOP, Project Management, Release Management, Server Administration, Server Architecture, Solution Architecture, System Architecture, Unix Administration, Version Control, Web Applications, Web Servers
Tools & Technology	Amazon Web Services (AWS), AngularJS, C, Git, Google Cloud, JavaScript, Mercurial, MicroPython, MongoDB, MQTT, MySQL, NGiNX, Objective-C, Open Source, Perl, PHP, Protocol Buffers, Python, Redis, SOAP, SQL, SVN, XML, ZFS
Other Skills	Analytics, Email Marketing, Mass Mailing, Multivariate Testing, Information Security, Penetration Testing, Product Development, Reverse Engineering, Security Auditing, Technical Requirements Gathering, Web Application Security

## Recent Experience

**Freelance**  
2004 - Current

*Systems Architect  
Software Engineer  
IT Consultant*

Primary areas of focus are on software architecture, server and application optimization, custom development, and general IT consulting.

**Protean Ventures**  
Dec 2014 - Current

*Chief Solution Architect  
Principal Software Engineer  
Manager / Team Lead*

Protean is a multi-tenant compliance, inspection, and data analysis platform. I solely architected and developed the full MVP, including the backend, frontend, mobile application and data collection hardware, and have led a globally distributed team to extend and maintain the product. Our clients include many top fortune 500 companies, multiple top 50, and one of the top 5. I regularly meet directly with our clients to ensure their needs are met and communicated to the team.

**Three Screens Studio**  
May 2013 - Jun 2017

*Senior Systems Architect  
Chief Software Engineer  
Manager / Team Lead*

3 Screens was a software development firm, focused on data-driven design and development. We leveraged the latest technologies in iOS and Android platforms, as well as responsive web design and development practices, to reach users in an integrated, multi-screen environment. I oversaw the design and development of many successful custom enterprise applications, while also acting as team lead for other projects. Other duties varied, ranging from requirements collection and hiring, to server administration and custom IT consultation.

**Mob Science**  
Apr 2012 - Jan 2013

*Senior Systems Engineer  
Senior Systems Architect*

Developed internal company tools for management of XML game configuration and assets (CMS). Technologies utilized include PHP Codeigniter, ORM, Percona MySQL, RESTful API, Javascript MVVM (KnockoutJS/jQuery), Perl, and Python.

**Instant Checkmate**  
Feb 2011 - Apr 2012

*Senior Systems Architect  
Senior Software Engineer  
Release Manager  
Server / DB Admin*

Primary duties included building and maintaining a mesh dedicated and cloud architecture consisting of NGiNX and PHP-FPM clusters, Percona multi-master/slave servers, a high-volume mail server (millions of messages per month), and assorted servers for the development team. I also oversaw developer workflows, assisted with conflict resolution, and managed releases. Other duties included development tasks, systems architecture and third-party data integration (ETL). We steadily grew month over month since the start of my employment to become a top-1000 website.