**Mark Strachan**

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Accomplished, self-motivated, and adaptable technology executive with over 15 years of global experience delivering high-quality software architecture to assist small, medium, and large-scale companies in achieving goals, through the mastery of multiple areas of business and technology. Deep upper-management experience throughout the entire project lifecycle. Constructed support systems for programming operations in a variety of vertical domains, including transportation, supply chain management and distribution, nuclear power, insurance, biotechnology, pharmaceuticals, and entertainment. Strategy-driven and data-driven professional known for organization excellent judgment, and critical-thinking abilities. A leader among leaders with a results-oriented personality; can innately influence others.

**Areas of Expertise**

Technical Architecture

Configuration Management

Application Design & Implementation

Cloud Infrastructure Management

Object-oriented Analysis & Design

Technology Evaluation / Interface Design

Enterprise Project Management

Customer Relationship Management

Multi-million-dollar Budget Management

Regulated Information Systems

3D Modeling & Spatial Computing

Optimizing Development Efforts

Product Development

Empowering Leadership

Business & Personnel Mgmt. / Mentoring

Mathematical Analysis

Augmented Reality

Virtual Reality

Intellectual Property

Compliance Monitoring

**Technical Skills**

Unity | Steam | Vive | Magic Leap | HTML5 | Open Source Libraries | Multitouch User Interface | Eclipse Integrated Development Environment (IDE) | Rider IDE | Visual Studio IDE | Rational Software Apps |Windows | MS Office Suite | Adobe Suite | J2EE | Java | JavaScript | JavaFX | Rational Unified Process | JasperReports | Junit | ANT | C | CORBA | Linux | Visio | .NET | Apache Tomcat | Pivotal GemFire| XML | UML | C# | C++ | SQL | JSON | Unix | Linux | Amazon Web Services

**Professional Experience**

**CODESOURCE SOFTWARE, THOUSAND OAKS, CA 1996 –2019**

Principal Architect

Completed product definition for CodeSource product line; Led design, architecture, and project management for Objective Applications Framework, a Java-based framework for multi-user applications in a distributed environment, for enterprise applications, as well as deployment, and administration, for clients, including Web, mail, desktop applications, and handhelds; Objective grew to utilize Apache Web server, Tomcat servlet engine, J2EE EJB server, and Object-based persistence engines.

* Implemented GOST Encryption Algorithm and demonstrated CodeSource capabilities; encryption provided variable key length symmetric encryption algorithm wrapped in Pretty Good Privacy encryption layer.
* Collaborated with remote software lab in the Ukraine to provide solutions to a variety of clients.
* Built company database, application framework, and configuration mgmt. system while providing software development services to clients.
* Designed and implemented complete application lifecycle management software system (“ThinkTank”) to support requirements management, bugs, designs, tasks, projects, staff, teams, messaging, application components, and code configurations; Designed highly flexible application framework to support ThinkTank’s development needs.
* Awarded grants from the NSF and a loan from the Small Business Administration.
* Authored three unpublished patents for company:
* **Aurora** (the Object Management System, providing persistence services for objects in distributed computing system)
* **Objective** (the Object-Oriented Development Framework, providing application-level services to optimize Unified Modeling Language [UML]-based development efforts in Java, in collaboration with CodeSource Aurora Object Management System)
* **The CodeSource Collaborative Suite** (an end-to-end systems development life cycle [SDLC] management system orchestrating requirements, defect tracking, quality assurance [QA], source code control, application component releases, and project teams). Completed marketing materials for CodeSource projects and engaged in QA and product refinement for the three product lines.

**Selected Project Experience with CodeSource:**

***Amgen Corporation - Thousand Oaks, CA (2006-2019)***

* Provided flexible manpower to Amgen for development needs over the course of 14 years, providing cost-effective and efficient help to Amgen’s BioStats development team, bearing ultimate responsibility for all technical decisions made by our group, with a focus on Java architecture, Spring framework, and Regulated Information Systems management.
* Selected and coached staff, providing code reviews and guidance, software architecture support, standards compliance, release management, testing, test automation, and configuration management support, in both a hands on coding and management capacity.
* Introduced team of software developers to management team for Amgen’s submission data files project, and as a result of that success, grew an operational capability which continued for over a decade.
* Supported entire suite of Amgen data products in support of 250 statistical analysts.
* Proved that IBM administrators who blamed Amgen staff for data loss situation were wrong; scapegoating of Amgen staff reverberated all the way to the top of Amgen, causing IBM to lose its entire Amgen cloud account for all locations, while Amgen staff remained.
* Maintained 10 applications within Amgen Biostatistics group to ensure full compliance with the Health Insurance Portability and Accountability Act.

***Serena Software, Redwood City, CA (2004 –2005; 2012 –2013)***

* Implemented successful deployments and provided maintenance for existing installs of various software.
* Provided advice to Director and VP levels for software development operations and procedures, and assisted Serena clients to establish operational readiness.
* Implemented Serena TeamTrack to support 25+ corrective action processes designed to capture and manage problems experienced by the four nuclear power plants run by Dominion Energy nuclear power plant in Richmond, VA, Serena’s fifth-largest customer.
* Integrated Serena’s configuration management system ChangeMan DS with its workflow system TeamTrack for several domestic and international customers.
* Consulted on establishment of software development operations and procedures.
* Provided consulting to the Serena Architecture group regarding its Serena Application Framework for Enterprise (SAFE) and Application Lifecycle Framework (ALF)—Architectural designs, incorporated into Eclipse project and providing an event channel for the integration of enterprise configuration management products into an orchestration framework operated by Serena’s Process View Controller.
* Developed SAFE integration of all SDLC products at CareFirst in Washington, D.C.—Requirements Traceability Management for requirements, TeamTrack for defects, helpdesk, development workflow, release management, and ChangeMan DS for configuration management.

**Education**

**Harvey Mudd College, Claremont, CA**

Bachelor of Science in Mathematics & Computer Science (Dual Major)