

**Software  
Engineering  
Manager**

Deep and broad experience managing the development of complex, high-performance software products and applications across a range of business domains and technology stacks. Focused on delivering business value through software development.

Effective manager. Forges productive relationships with stakeholders. Translates business goals into achievable, pleasant and robust software designs. Excellent coach and mentor; builds skilled development teams. Manages development processes, deployment pipelines, and production environments.

Accomplished architect. Hands-on expertise in service-oriented architectures (SOA), event-driven architectures (EDA), publish-and-subscribe, REST, API design, web and desktop UI/UX, on-line transaction processing and enterprise application integration.

Vue, Webpack, Java, Spring, Oracle, Swing, Goovy/Spock, Git, Maven, Jenkins, Jira, Docker, Kubernetes, OpenShift.

08/15- Present ***Myriad Genetics, Salt Lake City, Software Engineering Manager***

9/16 – Present.

- Manager of 6 people building state of the art tools for analyzing thousands of genetic sequences a day to identify clinically significant mutations that inform cancer treatment decisions.
- Member of architecture team designing transition from legacy monolith to hybrid SOA/EDA molecular diagnostics platform; managing UI/UX front-end team.

8/15 – 9/16. Team Lead / Senior Engineer for FDA regulated Companion Diagnostics (CDx) laboratory. Responsible for applications handling patient and clinical samples from blood to DNA sequencing results. Hired, supervised and mentored one junior engineer. Wrote Angular/REST apps to 1) track preventative maintenance for lab equipment and 2) to manage DNA tube retention and destruction.

09/04 – 7/15 ***Neovest (JPMorgan Chase), Provo, Principal Engineer (VP)***

Principal engineer for Neovest, JP Morgan's execution management platform. Product development/ownership role over feature design, responsible for overall UX design and UI programming, defining client/server messaging protocols, mentoring and supervising other engineers, specifying FIX protocols with algorithm developers, and writing the occasional server component. Designed and wrote 8 major product features including an innovative custom futures spread tool. Led a 4-person team building AlgoGenetics, an industry-first algorithm management system.

**(Neovest/JPMorgan Chase cont'd)**

Domain expertise in execution management for equities, options, futures, foreign exchange, option strategies, spread/pairs trading, algorithmic trading, FIX protocol, complex multi-leg order types, allocation, automated pricing schedules. Java, Swing, asynchronous messaging, Jira, FIX.

01/03 - 08/04 **Zettaworks, TIBCO/EAI Consultant**

(Telstra, Melbourne, Australia) Manager of production support for large-scale TIBCO-based EAI environment, responsible for provisioning of nearly all POTS and ADSL service in Australia - 80,000 orders per day, 24x7 support. Led 4 engineers in re-architecture/configuration effort for process control framework, version alignment, configuration management, and new hardware.

(Cingular, Alpharetta, GA) Wrote EAI layer for push-to-talk provisioning by extending socket-based XML interfaces used to provision all Cingular wireless service.

01/01 - 12/02 **ForwardCast, Inc., Boston, Co-founder, CTO**

Designed, wrote and documented comprehensive 100% Java toolkit for highly interactive, global and secure trading services. Responsible for product strategy and all software development: architecture, lifecycle, coding, testing, release. Designed multi-currency time deposit application with London desk of major money-center bank.

04/97 - 01/01 **FleetBoston, Boston, Architect, Lead Developer (Consultant)**

Architect and developer of global foreign exchange limit order system to integrate trading floors and customers in North America, Asia and Europe into a seamless, real-time 6x24 trading environment. Worked directly with COO of global foreign exchange to define requirements. Enabled a 500% increase in order volume, eliminated missed or double-filled orders. Delivered first version in 4 months. Developed and supported four successive versions including real-time feed of market rates. Used for over 10 years, ran essentially unattended and bug-free for last six years.

09/94 - 04/97 **State Street Bank, Boston, Development Manager, Architect**

Managed team of 12 developers for money market and foreign exchange businesses. Responsible for selecting teams, architectures, tools, vendors, and project schedules based on business requirements and available resources. Coordinated multi-disciplinary teams across trading, marketing, graphic design, corporate data security, audit, operations, QA and infrastructure departments.

Project manager and architect for Money Market Order Management System, one of the first and largest transaction systems on the Internet, with ~\$40 billion invested *per day*. Enabled 400% increase in trade volume, 80% reduction in settlement errors, and 15% reduction in traders.

02/93 - 07/94 **University of New Mexico Hospital, Albuquerque, Lead Developer**

Designed and wrote patient tracking system for Emergency, Trauma, Observation, and Urgent Care units. Worked with medical faculty, attending physicians, and nursing administrators to define requirements, overall project scope and schedule.

02/92 - 12/92 **More, Inc., Albuquerque, Lead Developer**

Customized teller, account management and account sales software for retail banks. Full-time travel and client contact.

09/87 - 05/91 **Citibank, N.A. / Quotron, New York City, Lead Developer**

Designed and wrote highly-interactive, high-performance trading systems for foreign exchange, stocks, bonds and warrants. Traveled internationally to install software, evaluate software teams prior to acquisitions and analyze marketability of internally developed systems. Early adopter of SQL and reactive microservice architectures.

08/85 - 12/86 **BDM, Inc., Albuquerque, Mathematician, Developer**

Designed and wrote mathematical models and computer simulations of ICBM warfare, aircraft squadron readiness, and spy satellite constellations. Monte-Carlo simulations, Poisson modeling, Keplerian orbital mechanics. Secret and Critical Nuclear Weapons Design Information clearances.

**Education** 1985, **B.S., University of New Mexico**

Applied Mathematics, Dean's List '84-'85