Richard Seroka

Over thirty years of system software engineering with a proven track record of delivering solutions to users on time while meeting or exceeding expectations of quality and features.

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EXPERIENCE

Crestron Electronics, Rockleigh, NJ

Principal Systems Architect MAY 2017 - JUNE 2022

- Architected and served as Technical Project Lead of User Interface Framework and visual components that allows HTML 5 Web applications to run on proprietary embedded processor touchscreen, iOS/iPadOS devices, and web browsers that communicate via binary protocols with Crestron equipment.   The system included hybrid browser/mobile apps on iOS and Android using Java/Swift/C++ for communication to Crestron equipment and HTML5 Custom Elements as Web Components for User Interface.
- Architected and served as Technical Project Lead of a scheduling application that runs on proprietary embedded processor touchscreens and communicates with MS O365, MS Exchange, Google Calendar and Crestron proprietary calendar applications. The system included a hybrid browser app on Android using Java/C++ for communications to calendar providers and HTML/Angular as Application Framework for User Interface.

Crestron Electronics, Rockleigh, NJ

Senior Software Manager MARCH 2012 - MAY 2017

Managed a team of 5 to 12 developers to enhance and maintain a User Interface Framework and visual components written in ECMA based AS3 computer language running on upon Adobe Flash/AIR platforms on proprietary embedded processor touchscreen, iOS/iPadOS devices, and web browsers that communicate via binary protocols with Crestron equipment

Morgan Stanley, New York, NY

Vice President JANUARY 2003 - MARCH 2012

Interest Rate Derivatives

- Served as regional software development manager and developer of a risk reporting and profit and loss attribution calculation system.   The system included C# User Interfaces accessing Java services.
- Developed feature enhancements and bug fixes on risk calculator system

SKILLS

Expertise in design and implementation of real time, asynchronous, event-driven applications and systems

Management of software development teams to meet project goals for quality and timeliness

Ability to gather and analyze business requirements and constraints from stakeholders, end users, and developers of interfacing systems

Proficiency in communicating technical designs with UML class, collaboration and sequence diagrams

Implementation of intricate security policies for Web based applications including JWT and HMAC

Effective trainer and teacher to junior and learning developers

COMPUTER LANGUAGE SKILLS

JavaScript/TypeScript, HTML, and CSS/SASS

Java, JNI, and C++

Python, Perl, Bash/Shell Scripting

Morgan Stanley, New York, NY

Vice President JANUARY 2003 - MARCH 2012

Interest Rate Derivatives (continued)

- Managed a team of 5 developers building a Trade Entry and Life Cycle Events Management system for Interest Rate Derivative products. The system included C# User Interfaces accessing Java services.

Credit Derivatives

- Managed a team to enhance and support a Credit Event calculation system. The system included an Excel User Interface accessing data provided by Perl and Python batch processes.

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY
Bachelor of Science - Computer and Systems Engineering
Minor - Management

PROJECTS

Volunteer Teacher Assistant — *TEALS* OCTOBER 2019 - MAY 2023

Assist High School teachers in the Newark Public Schools in both beginner and advanced placement, college level Computer Science classes

Volunteer Income Tax Assistance — *VITA* FEBRUARY - APRIL 2023

Prepare and file Federal and State income tax returns for seniors and low income earners with the Bergen Volunteers service (bergenvolunteers.org)

PATENTS

**Clean Video Switch Among Multiple Video Feeds in a Security System
Issued December 1, 2020
10,855,730**