

JONATHAN KOSAR

Senior Software Engineer

As an accomplished Senior Software Engineer aspiring to advance to a Principal Engineer role, I bring a proven track record of spearheading projects that deliver efficient solutions aligned with critical business requirements. My expertise includes leading the delivery of complex software systems with a focus on scalable, low-code, reusable component design. Driven by a passion for continuous learning, I am particularly enthusiastic about embracing and leveraging new technologies, including AI and machine learning, to drive innovation and efficiency in projects.

WORK EXPERIENCES

Senior Software Engineer

Bank of America | Oct 2016 - Present

- Directed weekly strategic meetings with over 10 attendees to align business requirements with development agendas for critical applications and tools. Managed software and hardware lifecycles across several apps, including SDLC release process ensuring security, compliance, minimal production issues, and downtime, thereby safeguarding business continuity for hundreds of daily users.
- Curated and led weekly training programs on best practices, development design, and emerging technologies, cultivating a culture of continuous learning and innovation within the team.
- Authored clean, scalable code daily, driving critical business functionalities and resolving complex technical issues promptly to keep projects on track.
- Spearheaded the design and development, of a web-based data visualization app to showcase unused capacity within the company's proprietary distributed system for parallel processing, collaborating with key stakeholders to ensure alignment with strategic objectives. This innovative solution delivered \$30 million in annual budget savings through reclaimed capacity in 2023. The app achieved scalable data storage by employing strategic data processing choices with Python and Pandas, handling several terabytes of business data while maintaining a robust user experience. Implemented REST CDN caching for front-end assets and asynchronous Highcharts JS for a responsive Webix dashboard, which resulted in halved application load times compared to initial design prototypes.
- Redesigned a large UI code base for tracking hardware deliverables using Openfin, Webix, ReactJS, and Python, focusing on dynamic data handling and a backend capable of managing several GB of data. Enhanced data load times from minutes to seconds on data tables through component event calls and in-memory real-time Python tables, ensuring a responsive user experience and effectively lowering the client-side memory footprint by several hundred MBs in most scenarios. Additionally, prototype-based class object components were developed using Webix prototypes to enhance future extensibility and improve readability.
- Reduced development time by 30% with the 'Pref App', a low-code configuration management tool built with Openfin, JS/Webix, and Python. The Pref App empowers developers and users with a user-friendly UI and APIs to easily manage preferences. Optimized data structures that handle tens of megabytes of nested configuration data efficiently, along with API solutions designed for diverse user groups and ownership scenarios.
- Architected and developed the Hardware Provisioning Workflow App using Python, ExtJS/ReactJS, and previous low-code solutions, in collaboration with business stakeholders. This innovative app streamlined hardware provisioning processes, achieving a 30% reduction in delivery times, from one year to an average of 6-9 months. The solution evolved from a tactical tool to an enterprise-wide standard, significantly enhancing transparency across business units.
- Designed an API data pipeline for the 'Notification Management App' using Python and Jinja, streamlining notification management with a template-based UI, reducing developer time by 25%.

Software Engineer Contractor @ Bank of America

FDM | Jun 2014 - Oct 2016

Network Engineer

US Air Force | Dec 2004 - Dec 2008

+17186735604

jonathankosar@gmail.com

www.jonathankosar.com

SKILLS

Experience

Python/REST/Jinja

Openfin

Webix/HTML/CSS

GIT

Object-oriented design

Intermediate

JS/ReactJS

Pandas/NumPython

Jira/Kanban

DML(SQL)

Familiar

Node.js/TypeScript/Craco

Elasticsearch

Java/Android

Apache Hadoop

Linux/Bash

Azure/AWS

EDUCATION

Computer Science

Hunter College, NYC

Jan 2009 - May 2014

Computer Network Systems & Electronic

Principles

Community College of the Air Force

Dec 2004 - Aug 2005