**Scott McKissock**

McLean, VA
202 870-9336

scottmckissock@gmail.com

https://smckissock.github.io/work-samples/

Active top secret clearance

**Professional Summary**

Senior Software Architect and Technical Leader with 25+ years of experience designing, implementing, and managing mission-critical systems for international development projects. Expert in developing cloud-based solutions, database architecture, and custom applications that scale to thousands of users. Proven track record of managing complex technical projects in challenging environments.

**Professional Experience**

**US Agency for International Development – Bureau for Asia** Washington, DC
**February 2010 – February 2025** 40 hours/week
**Team Lead / Software Architect**

Architect for USAID Info, a system used in USAID's Afghanistan and Pakistan missions to track foreign assistance projects which had more than five thousand USAID and implementing partner users in Afghanistan, Pakistan, and Washington. Developed the pilot system and recruited and trained a technical team of 5.

Led migration of USAID Info from virtual machines to Microsoft Azure Platform as a Service. The system used Azure Sql Database, Blob Storage, App Services and integrated with USAID's single sign-on service. Coordinated Security Assessment and Authorization and put necessary security software and practices in place to earn authority to operate by USAID CIO.

Worked with budget and accounting staff in Kabul and Islamabad to design the USAID Info budget formulation and execution module and pipeline reporting package. Imported existing budget levels from manually maintained spreadsheets and developed a daily ETL process to integrate with USAID's accounting system. The system greatly improved financial reporting quality for USAID's two most complex and politically significant portfolios.

Worked with the monitoring and evaluation staff in Kabul and Islamabad to design the USAID Info performance management module which maintained a hierarchy of performance indicators which USAID implementing partners report against quarterly. Developed reports, fact sheets, and dashboards (d3.js) to present this information to a variety of stakeholders.

Undertook more than 20 temporary duty assignments in Kabul and Islamabad to conduct design and training sessions, and to present the system to mission management. While working in a technical capacity as the USAID Info system architect and development lead, also served as the product manager, developing an understanding of user's needs and designing and implementing features to meet them. Using continuous deployment techniques, delivered new releases on a frequent – often daily - basis.

Developed system architecture based on a dimensional database design implemented on Microsoft SQL Server, a JSON API with caching and a custom object relational mapper implemented in C# on IIS, and user interface built with knockout.js that we later migrated to Angular.

Recognized the need for a project management and reporting system for the USAID missions in Afghanistan and Pakistan and made the case for this system to USAID and State senior staff. Also gained approval to develop this system - which became USAID Info - from the USAID CIO. Server as system owner and ISSO at different points in the project.

**US Agency for International Development – Afghanistan Partner Relocation Task Force** Washington, DC
**March 2022 – February 2025** 40 hours/week

Detailed to USAID’s Afghanistan Partner Relocation Task Force to develop a system to capture visa applications for Afghan employees of USAID and its partners and their families. Worked with team of USAID staff and newly hired Afghan immigrants to define needed capabilities. Deployed system which stores visa documentation, generates referral letters, checks for completeness and accuracy, and transmits packages of visa data and documents to a system maintained by the US Department of State. The team used the system to process the visa applications for 37,000 partners and family members.

**US Agency for International Development – COVID-19 Task Force**
**March 2020 – September 2020 (Detail)** Washington, DC 40 hours/week

Detailed to USAID’s COVID-19 task force to develop systems and processes to formulate the budget for USAID’s $1.3 billion COVID-19 supplemental, track reprogramming of prior-year funds for COVID-19 activities, and generate financial reports for Congress, OMB, and other stakeholders. Developed system module to monitor the performance of USAID COVID-19 programs worldwide

**The Union** Distributed team

**April 2022 – February 2023 (Part time)**

Lead developer on “Space Laser,” a website to share information about key races in the November 2022 election, as identified by the Union’s partner, the Lincoln Project. Used Django and PostgreSQL to manage information on candidates, volunteer events and press coverage.

**Sunlight Foundation** Washington, DC
**February 2018 – August 2018 (Part time)**

Developed a searchable and filterable interface for Sunlight Foundation's "Tracking Trumps Conflicts of Interest" project. Designed a SQL database to house data from Trump family member's form 278e submissions to the Office of Government Ethics, as well as press accounts of potential conflicts of interest. Developed a json api for this database and designed and implemented a front end based on d3.js, dc.js, and crossfilter.js.

**US Agency for International Development – Ebola Task Force**
**December 2014 – April 2015 (Detail)** 40 hours/week Washington, DC

Detailed to the USAID Ebola Task Force to provide process and system support to the effort to formulate the budget for the US government's response to the Ebola outbreak in west Africa.

Worked with attorneys and analysts on the Ebola Task Force to break down the Ebola funding legislation and translate it into a specification for a high-level budget plan. Developed a system that took funding streams and enabled personnel from USG agencies and USAID bureaus to develop detailed budgets.

Adapted the USAID Info budget module to capture Ebola funding at the account, country, agency, and purpose level. Developed views and export formats that compiled this information into reports for Congress, OMB and other stakeholders. Using Agile methods, developed useful functionality within two weeks and evolved the system on a daily basis to meet emerging needs.

**United States Department of State – Office of the Director of Foreign Assistance** Washington, DC
**June 2006 – February 2010** 40 hours/week
**Technical Team Lead**

When the USAID strategy and budget planning functions were incorporated into the newly formed State Foreign Assistance (F) bureau in 2006, led a team in defining requirements and implementing a system to formulate foreign assistance budgets for the Secretary of State, OMB, and Congress. Evaluated alternatives and adapted USAID's budget formulation system to build "FACTS Info" – (Foreign Assistance Coordination and Tracking System) for this purpose.

Working closely with State/F senior management and staff, built FACTS Info to formulate the $40 billion US foreign assistance budget. Added five engineers and transitioned maintenance of the system on my departure in 2010.

Developed system architecture based on a dimensional database, Microsoft SQL Server, XML web services and a dot net thick client.

**McKissock Capital Management** Falls Church, VA

**June 2006 - November 2008 (Part time)**

Wrote backtesting software in c# for a small hedge fund, build on a large historical dataset developed from S&P Compustat and proprietary data.

**US Agency for International Development – Bureau for Policy Planning and Coordination** Washington, DC
**June 1999 – June 2006** 40 hours/week
**Technical Team Lead**

Team lead on the Annual Report application, a system that was used in all USAID missions to formulate budgets, set performance targets and report against them, and plan workforce levels.

Developed Agency and bureau level components that were used at USAID headquarters to report against earmarks and directives, develop the Congressional Budget Justification, and other purposes.

**86.com** – E-commerce startup. Washington, DC.

**October 1998 – May 1999** 40 hours/week

Developer at B2B startup for the restaurant industry. Built customizations for the Commerce One e-commerce platform to allow the system to handle the peculiarities of food service procurement.

**Micros Systems** – Provider of systems for the restaurant and hotel industry. Columbia, MD

**January 1996 – October 1998** 40 hours/week
**Developer**

Developer on the back-office component of micros, the leading management system for chain restaurants. Modified the system's database and application code to support multiple currencies and perform calculations involving exchange rates. This effort enabled micros' European customers to transition to the Euro.

**Member’s Only Software** –Provider of systems for the membership organizations, think tanks, and advocacy groups. Washington, DC
**June 1994 – January 1996** 40 hours/week
**Developer/Analyst**

Led deployments of the Member’s only platform for the Isaak Walton League, the Educational Research Service and the Urban and Regional Information System Association.

**Red Sage Restaurant** Washington, DC
**February 1991 – October 1993** 40 hours/week
**Sous Chef**

Worked all kitchen stations in this influential southwestern-themed restaurant.

**Education**

**John Hopkins University** Baltimore, MD
MS, Software Engineering (Distributed Systems) September 2001

**University of Virginia** Charlottesville, VA
BA, History May 1989