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**Work Examples**

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

**Work Experience**

**US Agency for International Development – Office of Afghanistan and Pakistan Affairs**

**02/2010 – Present**   
**Project Manager and Software Architect**

Architect for USAID Info, a system used in USAID's Afghanistan and Pakistan missions to track foreign assistance projects with more than five thousand USAID and implementing partner users in Afghanistan, Pakistan and Washington.  
  
Led migration of USAID Info from virtual machines to Microsoft Azure Platform as a Service. System now uses Azure Sql Database, Blob Storage, App Services and Queues and integrates 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.  
  
Redesigned user interface based on user feedback and led a front-end development in migrating the UI from Knockout.js to Bootstrap and Angular. Developed training materials and led training sessions to ease system rollout. Set up a tracking of system to monitor system utilization by office and user, and followed up in problem areas.  
  
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 an assortment of manually maintained spreadsheets and developed an automated process to integrate the system 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 maintains a hierarchy of performance indicator 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 user's needs and designing and implementing features to meet them. Using continuous deployment techniques, delivered new releases on a frequent basis - often daily.  
  
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 on IIS, and user interface built with knockout that was migrated to Angular without significant API changes.

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.

**Sunlight Foundation**   
  
**12/2017 – Present (Part Time)**

**Designer/Developer**

Developed web application for the “Tracking Trump's Conflicts of Interest” project  
  
Designed a database schema to house information from the Office of Government Ethics financial disclosure form 278e. Developed a program to import this information from a google doc into the database.  
  
Developed a data collection website to collect press accounts of potential conflicts of interest using online SAAS data collection tools. Wrote a process to present this information as JSON and developed a website to search and filter these accounts using d3.js, dc.js and crossfilter.js.

trumpconflicts.sunlightfoundation.com

**US Agency for International Development – Ebola Task Force**  
**12/2014 - 04/2015 (Detail)**

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**  
  
**06/2006 - 02/2010**

**Technical Team Lead**

When the USAID strategy and budget planning functions were incorporated into the newly-formed State 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 departure on 2010. System is still in use today to build the foreign assistance congressional budget justification and other budget scenarios.  
  
Developed system architecture based on a dimensional database, Microsoft SQL Server, XML web services and a dot net thick client.

**US Agency for International Development – Bureau for Policy Planning and Coordination**   
  
**06/1999 - 06/2006**

**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**

**10/1998 - 05/1999**

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

**Micros Systems – Provider of systems for the restaurant and hotel industry**   
**01/1996 - 10/1998**

**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. This effort enabled micros' European customers to transition to the Euro.

**Education:**

**John Hopkins University** Baltimore, MD    
Master's Degree, Software Engineering (Distributed Systems) 09/2001

**University of Virginia** Charlottesville, VA    
Bachelor’s Degree, History 5/1989