

Carl Schroedl

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[US Department of the Interior](#) OClO, GS-13 Acting Software Architect, July 2023 - Present

- Founding software development community of practice for eleven bureaus and eight offices
- Leading the software development community's zero trust architecture transformation
- Promoting agility, user-centered design, DevSecOps, cloud, loosely coupled architectures

[US Geological Survey](#) Water Mission Area, GS 7-12 Computer Scientist, 2013 - July 2023

Software Engineering

- Delivered national-scale water information systems by collaborating with agile product owners, scrum masters, scientists, DBAs, designers, cloud engineers, security, operations, architects, and +35 developers
- Designs and develops monolithic and microservice systems using Java, Spring, Python, JavaScript, Vue.js, TypeScript, Docker, PostgreSQL, and GitLab CI/CD
- Leverages AWS including Lambda, S3, SQS, SNS, RDS, CloudFront, EC2, X-Ray, CDK
- Contributed to +200 git repositories

Engineering Leadership

- Led workshop to identify needs for the USGS-wide coding community
- Coauthored [USGS-wide best practices](#)
- Represented the Water Mission Area on the USGS Software Steering Committee
- Contributed to the DOI Open Source Software Policy
- Advised the DOI: ZTA Strategy, creating an ATO for GitHub Enterprise Cloud
- Chaired and regularly presented at developer knowledge-transfer meetings
- Coauthored [modular contract](#) QASP, SOO

Acting Scrum Master

- Acted as a scrum master for 6 months
- Facilitated standups, retrospectives, sprint and release planning meetings
- Introduced backlog refinement ceremony
- Migrated team documents and communications to new software suite
- Improved team's processes and tools for addressing technical debt

Product Owner of Water Enterprise Standards and Tools

- Established processes, tools, and culture empowering ~50 IT staff to collaboratively evolve technical standards
- Enabled fulfillment of standards through agile product ownership of production services for software composition analysis, SAST, code quality, secure container images, with POCs for DAST, accessibility scanning, and [DORA metrics](#)

Education: [University of Wisconsin – Madison](#) B.S. in Computer Science, 2008-2012

Training: [Gartner IOCS](#), [No Fluff Just Stuff](#) (4 times), [FOSS4G](#) (2 times), [iEMSS](#), [Data for Impact](#), [Geometry of Redistricting](#), dozens of local meetups on Java, Python, JavaScript, and Big Data

Books Read: [Recoding America](#), [Accelerate](#), [Scrum](#), [The Pragmatic Programmer](#), [more](#)

Activities & Interests: bicycle touring, [better voting](#) through the open source [Pivot Libre](#) project