Carl Schroedl

https://www.linkedin.com/in/carlschroedl
https://github.com/cschroed-usgs
https://github.com/carlschroedl
https://carlschroedl.com

Professional Experience

United States Geological Survey - Water Mission Area   January 2013 – Present

GS-11 Computer Scientist

Software Engineering

- Engineers software for more than 10 products that manage environmental data
- Collaborates with scientists, sysadmins, DBAs, designers, scrum masters, product owners, cloud infrastructure specialists, compliance officers, cybersecurity experts, architects, and the CTO
- Automates builds, tests, deployments, and configurations via GitLab CI/CD
- Develops monolithic and microservice systems using Java, Python, Vue.js, Docker, AWS CloudFormation, and the Serverless Framework

Leadership

- Chaired and regularly presents at developer knowledge-transfer meetings
- Recruits and onboards new developers
- Mentored three summer student interns
- Defined criteria for a $90k grant
- Serves on the USGS Software Steering Committee
- Created USGS-wide best practices
- Helped the DOI establish an ATO for GitHub Enterprise Cloud
- Drafted DOI policy on open source software

Acting Scrum Master

- Acted as scrum master for 6 months
- Conducted standups, retrospectives, and planning meetings
- Migrated team from Google suite to O365
- Introduced backlog refinement ceremony
- Improved team's processes and tools for addressing technical debt

Acting Product Owner of Enterprise Standards and Tools

- Acts as product owner on a $250k effort for increasing consistency of practices and tools across four scrum teams
- Leads the establishment of services such as secure container images, software composition analysis, Codacy
- Acquired ~$60k of software licenses
- Contributed to initiation of technical governance and advisory bodies

Education

University of Wisconsin – Madison, B.S. in Computer Science, 2008-2012

Activities & Interests

Contributing to the open source ranked voting project Pivot Libre, bicycle touring, attending tech user group meetups