

Sam Stuewe

Software Architect and Engineer

Leadership Experience

- 2021–Present **CBDC Software Engineer**, *MIT Digital Currency Initiative*, Boston, MA (Remote)
- Helped design, implement, test, and benchmark hypothetical designs for central bank, digital currencies (CBDCs)
 - Designed, established, and organized an open-source project and community to research questions surrounding CBDCs
 - Conducted formal code reviews
 - Guided and mentored student workers in a variety of positions from software engineering to product management
 - Reviewed and edited academic papers and presentations
 - Presented on CBDC topics various times (in online workshops, roundtables, and in-person meetings and conferences)
 - Aided in evaluating and hiring candidates for various roles
- 2019–Present **Senior Software Engineer**, *Emergent Software*, Edina, MN
- Discovered and Documented Client Requirements for several small-to-medium-scale projects (200 to 1000 hours)
 - Implemented projects as the Primary Engineer for multiple clients using Javascript, Typescript, React, Umbraco, C#, and others
 - Created a Client's internal, web-based ERP reconciliation tool
 - Updated a Client's Content Management System for better customer feedback, GDPR compliance, a better mobile experience, and enabling multi-lingual content
 - Completely rebuilt a Client's website, database and reporting system from the ground-up in modern C#
 - Aided other engineers in problem-solving and getting work finished on-time and to-specification
- 2017–Present **Software Architect and Lead Software Engineer**, *Conklin Company, Inc.*, Shakopee, MN
- Architected and Redesigned a commissioning system used for more than 19,000 customers
 - Guided and Managed development of six company-wide software projects
 - Interviewed more than 50 candidate developers
 - Hired and Managed nine software developers
 - Aided in completely rewriting company infrastructure and end-user facing applications
 - Worked with a team to deliver functioning, tested code on-time

Computer Skills

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| Personal | Well-established Personal Projects |
| Programming | enlighten—manage backlight brightness |
| Projects | pbpst—create and manage pastes on a popular pastebin |
| | shaman—retrieve and format weather data |
| Programming | Systems, Embedded, Native, Web backend and frontend |
| Languages | C# (6–8) with Mono, .NET Framework, and .NET Core |
| | C (Iso C99–C18) |
| | Haskell (Haskell 2010) and Agda |
| | Lua |
| | HTML (4 and 5) and Javascript |