

Jamesina Waddington

Software Developer

Madison, WI

✉ waddington.math@gmail.com

🏠 sinawaddington.net

🐙 github.com/sugarfrosted

🌐 [linkedin.com/in/james-m-waddington](https://www.linkedin.com/in/james-m-waddington)

Software Experience

5/2021–9/2023 **Software Developer**, *Yahara Software*, Madison, WI

A contract development firm. Development of full-stack web and desktop applications in multiple industries, including medical data-warehousing for child and fetal-maternal mortality prevention, livestock auctions, and curriculum development. Development using ASP.Net, WPF, Typescript, JavaScript, React, Node.JS, and C# using .Net Framework using an Agile methodology.

- Implemented model-view binder pattern for web-based application.
- Investigated and fixed end-user reported bugs.
- Developed migrations to update a relational (T-SQL) database model.
- Used Entity Framework and wrote SQL queries and stored procedures to load data.
- Created user-centered designs with direct input from end users, product managers, project coordinators, tech leads, and QA using an agile development methodology using scrum.
- Communicated changes in functionality with clients through product demos.
- Deployed web applications, services, APIs, and databases to the cloud hosting (Microsoft Azure) and to customer-owned hardware.
- Maintained and enhanced software with a mixture of new and legacy technologies.
- Participant in a workgroup for accessibility standards. Including development practices and guidelines for auditing compliance based on customer need and accepted risk.
- Participant in a DEI workgroup.
- Aided in the upgrade of an application using Entity Framework 4 to Entity Framework 6.2.

11/2018–10/2020 **Software Developer**, *Epic*, Verona, WI

Full-stack developer of an electronic health records program, Transfer Center, using ASP.NET MVC, Typescript, JavaScript, JSX, and C# using .NET Core and Framework.

- Developed software to interact with legacy systems, including fixing issues in existing legacy systems written in Caché M, a hierarchical key-value database and language.
- Performed test-based development (unit testing/integration testing) for complex M functions, procedures, and queries.
- Developed automated scripts to update the schema of customer-owned data without direct intervention.
- Developed data schemas for hierarchical persistent data storage systems and efficient look-up methods in Caché M.
- Implemented model-view binder pattern for web-based application.
- Investigated and fixed end-user reported bugs from minimal data and troubleshooting.
- Took into account data types and protected data (HIPAA compliance) to select ETL extraction to reporting databases (SQL and Cubes). Wrote SQL (MS and Oracle) views to aid in reporting.
- Integrated with other applications using disparate data models.
- Adapted existing applications for screen-reader compatibility using ARIA technology following WCAG 2.1 standards.
- Created user-friendly designs through a user-centered design process with direct input from

end users, user-experience designers, project managers, QA, implementation, customer support, and technical support using an Agile development methodology using scrum.

- Organized a project among my application team as part of a company-wide initiative for transition to a web-technology based application from a legacy application.
- Performed code refactoring and removal with a view towards existing customer code dependencies to increase reliability and reduce maintenance burden.

06/2013–08/2013 **Software Tester**, *PASCO Scientific*, Roseville, CA.

Ran tests on SPARKVue, a software program for use in science classrooms on hand-held devices and computers(iOS, macOS, Android, Windows).

- Tested cases involving internationalization (i18n), including bidirectional text and calligraphic characters.
- Implemented engineer-written procedures to verify behavior and prevent regressions.
- Documented issues from software testing with internal error tracking software.

Other Experience

11/2020–5/2021 **Copy Editor**, *Freelance*, Madison, WI.

Copy editing technical works for Birkhäuser/Springer using Springer’s internal style guide. Topics included mathematical logic.

11/2017–09/2018 **Substitute Teacher**, *El Dorado County Office of Education*, Placerville, CA.

Implemented lesson plans left by teachers. Communicated lesson plans to students.

09/2016–08/2017 **Teaching Assistant**, *University of Connecticut*, Storrs, CT.

Ran discussion sections on courses such as calculus. Collaborated with other educators. Graded assignments based on rubrics.

10/2014–08/2016 **Copy Editor**, *Journal of Communications in Mathematical Sciences (International Press)*, Madison, WI.

Copy-edited mathematical papers and communicated with authors about changes.

- Gained an understanding of style for technical writing using style guides.
- Communicated with authors on changes to reach a consensus on changes.
- Developed regex patterns to detect common errors in editing.

08/2014–06/2016 **Grader**, *University of Wisconsin Madison*, Madison, WI.

06/2010–08/2010 **Quality Assurance Intern**, *Pride Industries*, Roseville, CA.

Performed visual inspections of physical products and documented specification compliance.

Certifications

10/14/2021 **Microsoft Certified**, *Azure Fundamentals*, ID: 36B6DBCFC93ACBD5.

11/14/2023 **Microsoft Certified**, *Azure Data Fundamentals*, ID: 55BF512055D054BA.

03/19/2024 **Microsoft Certified**, *Azure AI Fundamentals*, ID: ED7B290FFDB4815.

Education

09/2016–08/2017 **University of Connecticut**, *Towards Ph.D. Mathematics*, Storrs, CT, 3.9.

In computability theory and mathematical logic.

08/2014–06/2016 **University of Wisconsin Madison**, *M.A. Mathematics*, Madison, WI, 3.8.

In computability theory and mathematical logic with some course work in complexity theory (computational complexity).

08/2011–12/2013 **University of California Berkeley**, *B.A. Mathematics*, Berkeley, CA, 3.6.

06/2008–12/2011 **Folsom Lake College, A.A. and A.S. Interdiscip. Studies**, Folsom, CA, 3.8.
Arts and Humanities; Math and Science. Highest Honors. (Granted 11/2013.)

Skills

Programming C#, .NET Framework, .NET Core, Typescript, JavaScript, JSX, React, Node.JS, ASP.NET, WPF, SCSS, Python3, regex, VimScript, LaTeX, Agile, ASP.NET MVC

Database Caché M, MUMPS, Entity Framework (LINQ), T-SQL (SQL Server), MongoDB

Other Jenkins, Git, SVN, NPM, Jira, Agile, Windows, Linux, VS Code, Visual Studio

Languages

German Limited passive proficiency.

English Fluent. Former professional copy-editor.