

Adam Byle

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SUMMARY

Software developer finishing a B.S. in Computer Science (May 2027) with three years of .NET/Azure internship experience and a decade of personal projects. Builds and maintains services and tools others rely on. Seeking a full-time developer role in Grand Rapids or West Michigan; available to start June 2027.

EDUCATION

Calvin University, Grand Rapids, MI

Expected May 2027

B.S. in Computer Science | 3.9 GPA | National Merit Scholar

EXPERIENCE

Software Developer Intern, Walter P. Moore

Summer 2023–present

Hybrid in Austin, TX during summers; remote from Grand Rapids during the school year

- Fixed out-of-memory errors and sped up server responses 12x for large structural models.
- Maintain and extend Stargate, a .NET web service and SQL Server database (Entity Framework) that stores and retrieves structural engineering models in Azure cloud storage.
- Exposed a dozen more internal tools to company engineers through the Stargate API.
- Built a web app for scheduled background tasks on those models (Docker) and UWP desktop tools for engineers.

Research Assistant, Calvin University Engineering Dept.

Spring–Summer 2026

- Develop Mexer (mexer.site), an open-source Django/PostgreSQL web platform for querying and visualizing global energy data without SQL; used by ~30 researchers at 15 institutions in 13 countries.
- Closed 34 user-requested issues and merged 12 pull requests in one summer, each through branch, automated tests (GitHub Actions), and review.
- Rebuilt the backend around the database schema, restored 12 silently skipped tests, and added query history, multi-region downloads, and interactive Plotly diagrams.
- Presented to researchers at the University of Leeds and Instituto Superior Técnico; co-authored a research poster.

CS Department Student Grader & Peer Tutor, Calvin University

Jan. 2024–present

- Grade data structures assignments, catching errors, memory leaks, plagiarism, and unpermitted AI use that automated tests miss; nominated for Student Employee of the Year.
- Tutored dozens of students one-on-one and in groups (Aug. 2024–May 2025).

PROJECTS & COMPETITIONS

Grader: Moodle grading tool (Spring 2026)

adambyle.net/grader

- Browser-based TypeScript app with reusable feedback, late-penalty policies, and Moodle-ready CSV import/export; used by CS student graders department-wide.

Coursekit: GitHub-based course platform (Fall 2026–present)

github.com/adambyle/github-cs-grader

- Flask/Huey/Docker web app with GitHub App sign-in (OAuth) and signed-webhook processing, tested with pytest; in development to replace GitHub Classroom department-wide.

Hack the Lab, 1st place

Fall 2024

- Won an eight-hour pair-programming contest without AI; maze solver beat second place by 10x.

University programming competitions, winner

Fall 2023, Fall 2024

SKILLS

Languages: C#, Python, TypeScript/JavaScript, Rust, C++, Go, SQL

Web & Data: ASP.NET, Entity Framework, SQL Server, PostgreSQL, Flask, Django, HTMX, REST APIs, WebSockets

Tools & Cloud: Azure, AWS, Docker, GitHub Actions, Git, SSH, AI-assisted development (Claude Code)

Beyond code: award-winning composer and pianist; compositions have toured with a university orchestra.