

# Dale Musser

dale@dalemusser.com · San Francisco, CA · dalemusser.com · github.com/dalemusser · linkedin.com/in/dalemusser

Daily Claude Code user, CEO of Intelligence Builders, and Associate Teaching Professor of Computer Science / Information Technology at the University of Missouri for 17 years (Feb 2008 – Jul 2025). Thirty-five years building developer tools and the curriculum that teaches developers to use them – from multimedia development tools and an interpreted language for the SEGA CD at IBM, through directing the growth of an undergraduate IT degree program from 70 to 320 students, to the open-source Waffle Go web framework that powers this site.

## SKILLS & TOOLS

---

|                       |   |
|-----------------------|---|
| Languages             | Go, Python, Swift, JavaScript / TypeScript, C# / .NET, SQL, HTML / CSS  |
| Frameworks & runtimes | Waffle (Go), Chi, HTMX, Tailwind, Unity (WebGL), Node, MongoDB  |
| AI tooling            | Claude Code, Anthropic API, OpenAI API, Whisper, Suno (daily use)   |
| Systems & ops         | Linux (systemd), AWS (EC2, ALB, Route 53), Cloudflare, Docker, GitHub Actions   |
| Education & content   | Curriculum design, instructional design, video production, technical writing, course delivery (in-person and online), grant writing |

## SELECTED EXPERIENCE

---

|                               |   |
|-------------------------------|---|
| February 2020 – Present       | <b>Chief Executive Officer</b><br>Intelligence Builders <ul style="list-style-type: none"><li>Lead education-technology consulting and product development work focused on learning analytics, AI-supported teacher feedback, educational games, and research data infrastructure.</li><li>Develop and support the Strata ecosystem, including StrataHub, StrataLog, StrataSave, and related services for Mission HydroSci and other learning environments.</li></ul>   |
| February 2008 – July 2025     | <b>Associate Teaching Professor, Computer Science/Information Technology</b><br>Electrical Engineering Computer Science Department (EECS)<br>College of Engineering · University of Missouri <ul style="list-style-type: none"><li>Courses taught: team-based iOS application design and development, software engineering, database systems, object-oriented programming and design, web application development, C#/.NET desktop application development, introduction to programming in Python, and senior capstone.</li><li>Research areas: mobile applications, health informatics, learning systems, learning spaces, programming languages, web applications, Internet technologies, social computing, digital media, and spatial audio.</li><li>Taught online courses from San Francisco, CA.</li></ul> |
| May 2016 – May 2018           | <b>Chief Technology Advisor</b><br>Reynolds Journalism Institute<br>School of Journalism · University of Missouri   |
| February 2008 – December 2015 | <b>Director of Information Technology Program</b><br>Computer Science Department<br>College of Engineering · University of Missouri <ul style="list-style-type: none"><li>Managed the undergraduate information technology degree program.</li><li>Increased enrollment from 70 students to 320 students.</li><li>Raised funding from \$200,000 to \$1.3 million annually.</li><li>Responsible for improvements in curriculum and instructional delivery in CS and IT.</li></ul>  |
| 1995 – 1999                   | <b>Co-Founder and Co-Director</b><br>Center for Technology Innovations in Education (CTIE)<br>University of Missouri <ul style="list-style-type: none"><li>Directed day-to-day operation of CTIE: budgets, personnel, technology, facilities, and mission.</li><li>Directed \$500,000 renovation of CTIE facilities.</li><li>Directed research and development projects.</li><li>Managed Internet/server services for the College of Education.</li><li>Obtained funding for research and development projects and general operation of CTIE.</li></ul>   |
| 1994                          | <b>Multimedia Software Title Director and Designer</b><br>IBM K-12 · Atlanta, GA <ul style="list-style-type: none"><li>Designed and directed the development of "Magic Canvas!"</li><li>Participated in development of the "Shadowboxes: A Story of the ABC's" CD-ROM for Windows.</li><li>Created and managed the IBM Educational Software Summer Design Project.</li></ul>  |

- 1993 **Software Developer**  
SEGA of America · Redwood City, CA
- While working for IBM I spent three months at SEGA developing an interpreted programming language and video player software for the SEGA CD game platform.
- 1990 – 1992 **Education Instruction Specialist**  
IBM EduQuest · Atlanta, GA
- Developed a network-based multimedia database management system.
  - Developed a system for accessing analog video from videodiscs over a digital network.
  - Developed a Novell-based network voice mail system.
  - Co-developed the second generation of the Digital Video Interactive (DVI) Audio/Video Kernel (AVK) for DOS.
  - Developed prototype and demonstration multimedia technologies.

## EDUCATION

---

- June 1992 **Doctor of Philosophy**  
Instructional Design and Technology  
Department of Educational Policy and Leadership · The Ohio State University
- December 1989 **Master of Arts**  
Instructional Design and Technology  
Department of Educational Policy and Leadership · The Ohio State University
- May 1986 **Bachelor of Science in Education**  
Physics and Mathematics Education  
Department of Education · Shippensburg University of Pennsylvania
- 1982 – 1984 **Electrical Engineering**  
Department of Electrical Engineering  
Pennsylvania State University

## SELECTED PROJECTS

---

- Musser, D. (2024 – present). "Waffle." [Open-source Go web framework]. Intelligence Builders, San Francisco, CA. [[github.com/dalemusser/waffle](https://github.com/dalemusser/waffle)]
- Musser, D. (2022 – present). "Strata system (StrataHub, StrataLog, StrataSave, StrataForge)." [Learning analytics platform for educational games and simulations]. Intelligence Builders, San Francisco, CA.
- Musser, D. (2016). "Debate Analyzer." [Java Application and Web Site]. University of Missouri, Columbia, MO. [[debateanalyzer.com](https://debateanalyzer.com)]
- Musser, D. (2016). "14ymedio iOS Mobile App." [iOS app and web services]. University of Missouri, Columbia, MO.
- Musser, D., Perry, L., Perry, T. (1994). "The Trek: An Interactive Literature Adventure." [Computer Program Design]. IBM EduQuest, Atlanta, GA.
- Musser, D., Causey, J., Duke, B. (1993). "SEGA Digital Video and Animation System." [Computer Program]. IBM EduQuest, Atlanta, GA.
- Musser, D., Kheriaty, L., Causey, J. (1993). "SEGALink." [Computer Language]. IBM EduQuest, Atlanta, GA.

## SELECTED AWARDS

---

- Spring 2019 **Computer Science Department Faculty Award**  
Selected by graduating CS and IT seniors.
- Spring 2010 **College of Engineering Faculty Fellowship**  
Renewable/reviewable faculty fellowship awarded by the Dean of Engineering.
- Fall 2009 **Excellence in Teaching with Technology Award, Undergraduates**  
MU 2009 Faculty Recognition Awards.
- April 20, 1998 **Citation of Merit for Outstanding Achievement**  
Excellence in Education Awards · MU Division of Student Affairs.
- 1982 **Eagle Scout**  
Boy Scouts of America · Troop 172 · Terre Hill, PA.

## INTERESTS

---

Developer tooling, AI agents, education and curriculum design, mobile development, programming languages, spatial audio, amateur radio (W6NCA), robotics, multicopters, and networked learning systems.