

## Derrick Eberlein

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### PROFESSIONAL EXPERIENCE

#### Tomodachi Street (Event and Meetups Group focusing on growing a community in the DMV)

Gaithersburg, MD

##### CTO | Founder

Feb 2024 – Present

- Led open-source integration for a messaging platform, increasing regional connections by 40% using advanced coding techniques
- Developed a Java application to automate operations, streamlining workflows and boosting processing speed by 75%
- Designed and deployed a MongoDB infrastructure with enhanced security, optimizing data access by 25%
- Created immersive AV experiences for high-profile events, increasing attendance by 14% and driving user engagement
- Founded and scaled a regional organization from 0 – 100+ members, successfully hosting diverse events and enhancing community engagement

#### Anime Alliance

Annapolis, MD

##### Event Staff

May 2023 – Jan 2024

- Set up AV equipment and decorations for 500+ attendees
- Ensured safety, enforced entry restrictions, monitored gaming stations

#### IBEX Controls

Paul, ID

##### Software Engineer | Team Lead

Jan 2023 – Apr 2023

- Led a four-member team in developing a compliant web application for electrical panels, adhering to 508A UL standards
- Directed a cross-functional team, ensuring alignment with customer needs/industry standards while fostering collaboration & clear communication
- Spearheaded an application overhaul, implementing innovative solutions to resolve technical challenges, including SSL issues across browsers
- Conducted comprehensive code reviews, ensuring strict compliance with 508A UL specifications and reducing development delays through rigorous quality control
- Orchestrated team meetings with defined deliverables, tracking progress to maintain momentum and meet project deadlines
- Bridged the gap between project management/clients, translating complex requirements into actionable tasks/building long-term client relationships

#### BYU-Idaho

Rexburg, ID

##### Software Engineer | Team Lead

Oct 2021 – Apr 2022

- Led a team of six in developing mobile and web applications, consistently delivering projects on schedule, boosting user engagement by 30%, and improving overall efficiency by 23% through app feature enhancements using Java and SQLite
- Optimized SQL database structures, resulting in a 15% improvement in backend efficiency and smoother data management while collaborating with cross-functional teams to streamline app performance, achieving an 18% performance increase
- Spearheaded innovative app features and intuitive UI templates, anticipating user needs, enhancing design aesthetics, and positioning the product at the forefront of mobile grocery technology
- Co-authored SRS and SDD documentation, aligning project execution with business and technical requirements while providing technical leadership through peer code reviews and pair programming to improve legacy systems
- Facilitated daily Agile Scrum meetings, managing JIRA boards, Sprint goals, and individual team member progress to maintain productivity, swift issue resolution, and iterative progress
- Coached and mentored team members, fostering career growth, and worked directly with customers and project management to gather requirements, define Epics and User Stories, and deliver solutions that exceeded expectations

#### Service Source

Capitol Heights, MD

##### General Clerk II

Sep 2016 – Present

- Streamlined mail operations (+30% speed) and improved QA/IT reporting.

### PROJECTS

#### Event Management Web Application

Developed a responsive event management app integrated with a Discord bot via the Google Calendar API. Events created on Discord sync automatically with the website and are deleted via Discord commands or at event completion, removing the need for manual form entries.

- **Event Display and Management:** Dynamic, responsive listing of Discord-created events with automatic updates and seamless user experience.
- **Event Deletion:** Events are removed via Discord commands or automatically at event completion, reducing manual intervention.
- **Discord & Google Calendar Integration:** Real-time syncing between the Discord bot, Google Calendar, and website for accurate scheduling and visibility.
- **Technologies Used:** JavaScript, React, Tailwind CSS, Material UI, Google Calendar API, JDA (Java Discord API).

#### Server Management Bot (Discord)

Developed a feature-rich Discord bot using Java and JDA to streamline server management, automated moderation, and content handling.

- **Blacklist Management:** Automated enforcement of dynamic blacklists during user onboarding
- **Channel and Content Moderation:** Automated channel creation, permissions management, and scheduled content cleanup
- **Dynamic Content Features:** Integrated Reddit API for random media fetching, Spotify and YouTube Music, ChatGPT summarization functionality and Google search functionality within Discord
- **Technologies Used:** Java, JDA, MongoDB, Reddit API, Google Custom Search API, ScheduledExecutorService, Regular Expressions, Dotenv

### EDUCATION

#### Brigham Young University, Idaho

Rexburg, ID

B.S. in Software Engineering | GPA 3.97, *Magna Cum Laude*

Jul 2023

#### Old Dominion University, Virginia

Norfolk, VA

M.S. in Data Science and Analytics

December 2026

### ADDITIONAL

- **Skills:** Software Testing, Software Maintenance, Cloud Computing, API Development, Continuous Integration, Java, JavaScript, Python, Agile Methodologies, Problem Solving, Database Management, Web Development, Technical Documentation, Team Leadership, Version Control, Mobile Development, DevOps, C++, HTML5, CSS, MongoDB, MySQL, SQL Server, jQuery, Angular, React, IntelliJ IDEA, Microsoft Visual Studio, Eclipse, Maven, Gradle, PHP, Software Design, Software Design Life Cycle (SDLC), Automation, Scripting, Web Applications, Machine Learning
- **Certifications:** AZ-900 – Azure Fundamentals, Microsoft (Sep 2023 – Present)
- **Achievements:** Service Excellence Award – Recognized for outstanding work and exceptional performance, demonstrating a commitment to high-quality software development in a trading systems environment | Employee of the Year – Recognized for outstanding work, exceptional performance, and dedication to my job, reflecting strong organizational skills and team collaboration in mission-critical projects