

# Buman-Erdem Enkhbold

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## EDUCATION

**University of Wisconsin-Madison** | *Bachelor of Sciences, Computer Science and Data Science* May 2026

- **Honors:** Dean's List 2022 - 2024 Cumulative GPA: 3.7/4.0
- **Relevant Coursework:** Elementary Matrix & Linear Algebra, Calculus I–III (Single & Multivariable), OOP in Java, Data Structures & Algorithms, Computer Engineering, Data Science Programming, Introduction to Big Data Systems, Database Management Systems, Building User Interfaces, Artificial Intelligence

## WORK EXPERIENCE

**Intel Corporation** – *Software Engineering Intern* | **Folsom, California** May 2025 – August 2025

- Wrote a **C# script** that automatically syncs **Jira** with Intel's **defect database (HSD-ES)** using the Jira API; added bulk updates, safety checks, and clear logs — **saving ~30 minutes per engineer per day**
- **Secured the script** by using a dedicated service account with JSON credentials, removing personal passwords from automation
- Upgraded the C/C++ compiler (**GCC 9.2 → 12.2**) and fixed failing unit tests to **stabilize Linux CI builds**
- Enabled automated code checks (**Coverity, CppDepend**) and expanded test coverage with **Bullseye** to **catch issues earlier**
- Investigated and resolved **build/pull-request failures** in a large C++ codebase, scripted fixes and documented steps in runbooks

**ArtLab - Cloud ERP Systems** | *Backend Developer Intern* | **Ulaanbaatar, Mongolia** June 2024 – September 2024

- Integrated the **TelcoCommunication API** into ArtLab's ERP to **centralize client call history** in one place
- Built **Java + SQL** jobs to automate data ingestion and updates; enforced secure storage and access controls
- **Optimized SQL** (indexes, query refactors) for faster and more reliable retrieval of call data
- Added **validation, retries, and error handling** to protect data integrity across the integration
- **Reduced manual work ~30%**, improving the team's day-to-day productivity

## PROJECTS

**Personal Website** — **Portfolio** | *Developer*

A single-page portfolio that highlights projects, experience, and contact information.

- Built with React + Tailwind; sections for Projects, Experience, About, Contact with anchor navigation
- Added clear CTAs with View/Download résumé, and links to live demos and code
- Responsive and accessible components; deployed to GitHub Pages

**Mood-Based Entertainment Recommendation System** | *Full-Stack Developer*

An AI-powered web app that recommends anime and movies based on the user's mood.

- Used AWS Bedrock and Glue to extract sentiment and emotion data from user inputs for personalized recommendations
- Built a backend in Java and added tests to ensure reliability
- Designed a responsive web app using React and Node.js for users to input moods and get results
- Connected frontend and backend using AWS Lambda and API Gateway

## TECHNICAL SKILLS

- **Languages:** Java, C++, C, Python, JavaScript, HTML, CSS
- **Cloud:** AWS (Lambda, API Gateway, S3, DynamoDB, CloudWatch)
- **Frameworks & Libraries:** React.js, Node.js, REST APIs, JavaFX
- **Databases:** SQL (queries, optimization, schema design), DynamoDB, DBgate
- **Tools & Hardware:** Git/GitHub, GitLab, Docker, Postman, Makefile, Arduino, Raspberry Pi