Buman-Erdem Enkhbold

bumanerdem2004@gmail.com | (608) 960-6679 | 404 East Wilson St, Madison, WI 53703

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, Introduction to Computer Engineering, Data Science Programming, Introduction to Big Data Systems, Database Management Systems, Building User Interfaces, Introduction to Artificial Intelligence

TECHNICAL SKILLS

- **Languages:** Java, C++, C, Python, JavaScript, HTML, CSS
- **Cloud & DevOps:** AWS (Lambda, Fargate, API Gateway, DynamoDB, S3, Glue, Bedrock, CloudWatch, Athena, Step Functions, EventBridge, SQS, SNS, VPC, IAM, Chatbot), Git, GitHub, GitLab, Postman
- **Frameworks & Libraries:** React.js, Node.js, REST APIs, JavaFX
- **Databases:** SQL (queries, optimization, schema design), DynamoDB, DBgate
- **Tools & Hardware:** Makefile, Arduino, Raspberry Pi

WORK EXPERIENCE

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

- Refactored legacy code by integrating authenticated JIRA REST APIs to synchronize Intel's HSD-ES database with Jira ticketing.
- Improved CI/CD reliability by upgrading GCC (v9.2.0 → v12.2.0), resolving unit test failures, and ensuring full build compatibility.
- Automated static code analysis (Coverity, CppDepend) and expanded code coverage with Bullseye on SLES15 environments.
- Investigated PR failures in large C++ codebases (XeSim) using Gradle, Shell scripting, GitHub Actions, and documentation updates.
- Secured internal scripting by implementing faceless account credentialing via JSON, following security best practices.

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

- Connected TelcoCommunication's API to the ArtLab system to centralize and manage client call history in one platform.
- Streamlined data processing using Java and SQL, automating workflows and ensuring secure database storage.
- Tuned SQL queries for faster, more reliable access to key call data.
- Built error-handling features to protect data integrity during API integration.
- Boosted team productivity by 30%, reducing manual work and easing day-to-day operations.

PROJECTS

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

A platform that recommends animes, movies, and related shows tailored to the user's mood, preferences, and reviews, using AI-driven processing and a robust database.

- 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.