

BREDE BRENDEMO

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EDUCATION

Iowa State University — Ames, IA

Jan. 2024 – Expected Dec. 2027

B.S. in Computer Science

Coursework: Object-Oriented Programming, Data Structures, Discrete Computational Structures, Software Development Practices, Computer Architecture, Advanced Programming Techniques, Algorithms, Operating Systems, Programming Languages, Database Management Systems (in-progress & scheduled; all completed by Summer 2027).

BI Norwegian Business School — Oslo, Norway

Aug. 2020 – May 2023

Business Administration coursework

PROJECTS

Circle — Private Social Media Platform

2025 – Present

Next.js, TypeScript, React Native, Expo, Tailwind CSS, Supabase, PostgreSQL

- Built a full-stack platform for invite-based private communities with authentication, Circle creation, member access control, and post feeds backed by Supabase and PostgreSQL.
- Designed relational data models for users, Circles, memberships, posts, and permissions — enforced with row-level security policies at the database layer and Postgres triggers keeping denormalized counters consistent.
- Developed synchronized mobile and web experiences with Expo/React Native and Next.js; resolved cross-platform build and dependency conflicts across environments.

Real-Time Market Data Filter & Alert System

2026 – Present

Python, WebSockets, ntfy

- Built a Python event-processing system that consumes a live WebSocket stream of Solana token creation events, applying multi-criteria filtering logic to surface tokens matching configurable thresholds.
- Prototyped against simulated historical data before live deployment; integrated ntfy for real-time mobile push notifications on qualifying events.
- Redesigned the data pipeline around free public event streams after evaluating cost and coverage tradeoffs of paid per-token trade data APIs.

BetterFuture — Financial Simulation Engine

Jun. – Aug. 2025

Java, Java Swing

- Built a Java financial planning tool with a Swing GUI that projects loan repayment, income, expenses, and net worth across multi-year horizons.
- Designed an object-oriented domain model — separating loans, assets, and repayment strategies into distinct classes — to support configurable allocation logic and long-term maintainability.

EXPERIENCE

Broyte.no — Oslo, Norway

Jun. 2022 – Dec. 2023

Technical Localization & Customer Support Assistant (Contract)

- Reviewed and maintained structured JSON configuration files to ensure consistency and correctness across application content.
- Translated technical issues and requirements between developers and users; assisted with issue tracking and documentation to support application updates and localization efforts.

Dorm Mover — Iowa State University, Ames, IA

May – Aug. 2025 & May – Aug. 2026

- Prepared 100+ dorm rooms per summer under tight deadlines; coordinated with small teams to meet daily assignments efficiently.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript

Frameworks & Libraries: Next.js, React, React Native (Expo), Tailwind CSS, JUnit

Databases & Backend: Supabase, PostgreSQL

Tools: Git, GitHub, VS Code, Claude Code, PyCharm, Eclipse