

# SEAN MCBROOM

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## EDUCATION

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### Des Moines Area Community College

Des Moines, Iowa

Computer Information Systems, AAS

Aug 2023 - May 2025

- Dean's List (3.30 GPA)
- Coursework: Java I & II, Python I & II, C#, JavaScript, HTML & CSS, Programming Logic, Data Structures, Database & SQL, SQL/Oracle

## PROJECTS

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### Emote Manager (Website)

([emotemanager.xyz](#))

Full-stack Web Application

Feb 2023

- Engineered a responsive, component-driven UI in React and TypeScript, leveraging modular architecture for maintainability and rapid feature development.
- Architected a secure Express.js backend integrating Stripe API for real-time subscription management and PCI-compliant payment processing.
- Applied UX/UI best practices to deliver an intuitive, frictionless experience across devices.
- Optimized application performance through code-splitting, caching strategies, and deployment tuning for scalability and low-latency load times.

### JMdictSQLite

([github.com/seanmcbroom/JMdictSQLite](#))

Japanese-English Database Project

July 2025

- Engineered a distributable, offline-capable Japanese-English lexical database by transforming the official JMdict dataset into an optimized SQLite schema.
- Implemented semi-custom XML stream parsing in TypeScript to process and normalize 180K+ dictionary entries for efficient storage and retrieval.
- Released as an open resource for developers.

## SKILLS

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### Technical Skills

- **Programming Languages:** TypeScript, JavaScript, Java, C#, SQL
- **Frameworks/Libraries:** React, Vue, Express.js
- **Tools & Platforms:** Git, GitHub, Linux, VS Code
- **Other:** UX/UI Design, Responsive Web Development