

# AJ Kneisl

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## EDUCATION

### University of Minnesota

*Bachelor of Science in Computer Science*

Minneapolis, MN

*Expected Spring 2027*

- Classes: Algorithms and Structures, Discrete Structures, Computational Linear Algebra, Machine Architecture
- Activities: Social Coding, Tech Horizons, IoT

## TECHNICAL SKILLS

**Languages:** Java, Kotlin, Rust, C++, Swift, Python, SQL, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Node.js, Dino.js, Springboot, Ktor

**Developer Tools:** Docker, nginx, bash, Gradle, Maven

**Libraries:** JUnit, Exposed, SLF4J, Jackson

## EXPERIENCE

### Freelance Work

September 2022 – Present

*Fullstack Developer & System Administrator*

- Lead development on a script-sharing website using **TypeScript**, featuring automatic payouts and custom **Jetty** powered engine, amassing over **1,000** users.
- Launched a custom Minecraft plugin using **Java**, leading to a **36%** increase in player retention in over **4,000** unique players by improving server performance and enhancing game play.

## PROJECTS

### SpotKey | *Kotlin/Java, Swing*

Apr 2019 — Sep 2019

- Created computer-wide Spotify hotkey support with **Kotlin**, improving user convenience and enabling seamless music control without app focus.
- Implemented full customization through a **JSON** configuration system, increasing usability by allowing personalized hotkey setups.
- Designed an interactive and resource-efficient desktop UI with **Java Swing**, reducing memory usage by 20% compared to similar Electron applications.

### Unifey | *Kotlin/Java, Ktor, Javascript, React, socket.io, MongoDB*

May 2020 — Jun 2023

- Developed a forum-based social media platform, enabling users to connect and share content, achieving consistent user engagement throughout.
- Deployed using the platform using **AWS** to automatically scale with usage, significantly reducing downtime.
- Implemented account verification through email and phone, decreasing the amount of fake users dramatically.

### DECAfe | *React, TypeScript, Next.js*

May 2023 — June 2023

- Developed a cafe ordering website for a DECA competition, leading our team to qualify for **ICDC**.
- Leveraged **Vercel's CI** pipeline to automate deployments, ensuring the website remained up-to-date for competition.

### Bulletin | *React.js, Tailwind, Ktor, Kotlin*

Aug 2025 — Present

- Created an efficient and customizable photo-board website, ensuring fast page load speed by implementing **auto-scaling images** on upload and optimized delivery for text and photo blocks.
- Easily deployable through **Docker** and customization storage options through **local storage or Amazon S3**.

## LEADERSHIP EXPERIENCE

### DECA Captain

September 2022 — June 2024

*BHS DECA Chapter*

*Burnsville, MN*

- Led a team of students to improve their communication skills and problem solving abilities within DECA, leading us to numerous **national qualifications**.
- Helped lead numerous events to help fundraise for DECA, raising **50%** more than the previous years.
- Organized events and fairs to share DECA, increasing membership by **30%** in only one year.
- Leveraged technology skills to drive project success, strengthen team performance, and secure competitive qualifications.