AJ Kneisl

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EDUCATION

University of Minnesota   Minneapolis, MN
Bachelor of Science in Computer Science | GPA: 3.93   *Expected Spring 2027*
- Relevant Coursework: Algorithms and Data Structures, Discrete Mathematics, Computational Linear Algebra, Machine Architecture

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, Rust, C++, C, TypeScript, SQL
Backend: Ktor, Spring Boot, Node.js, Jetty
Frontend: React, Next.js, TailwindCSS
Tools/Cloud: Docker, AWS (EC2, Auto Scaling), nginx, Git, Gradle, Maven, Vercel CI/CD
Databases/Testing: MongoDB, JUnit, JetBrains Exposed, SLF4J, Jackson

EXPERIENCE

University of Minnesota   Jan 2025 – Present
CS Undergraduate Teaching Assistant   *Minneapolis, MN*
- Facilitate weekly lab sessions for **30+ students**, providing hands-on guidance with data structures, algorithms, and debugging techniques in Python and Java.
- Hold regular office hours to assist students with assignments, clarify complex programming concepts, and improve code quality through detailed feedback.
- Grade assignments and provide constructive feedback on code efficiency, style, and correctness to help students develop industry-standard coding practices.

Freelance Work   Sept 2022 – Present
Fullstack Developer & System Administrator   *Minneapolis, MN*
- Deployed a script-sharing marketplace in **TypeScript** with **Jetty**, scaling to **1,000+ users** with 99.9% uptime.
- Designed and implemented responsive mortgage and inquiry forms with real-time validation and **RESTful API** integration, improving form completion rates by **35%** over nearly **10,000** visits.

PROJECTS

Burrow | *React, Tailwind, Kotlin, Ktor, PostgreSQL*   Sept 2024 – Present
- Led a 5-person team to develop a study group matching platform with **RESTful APIs**, JWT authentication, and real-time availability matching algorithms.
- Won **first place** in University of Minnesota startup competition by delivering a production-ready MVP under tight deadline constraints.
- Increased user adoption by over **60%** in first year through targeted marketing campaigns and presentations at lecture halls with 200+ students.

Unifey | *Kotlin, Ktor, React, socket.io, MongoDB*   May 2020 – Jun 2023
- Developed a full-stack social media platform featuring forum discussions and real-time chat using **WebSockets** and **socket.io**, supporting 500+ concurrent users.
- Deployed on **AWS EC2** with auto-scaling load balancers achieving 99.5% uptime and sub-200ms response times.
- Designed and optimized **NoSQL** database schema with proper indexing, reducing query times by **60%** for content retrieval operations.

LEADERSHIP

Social Coding Officer   Sept 2025 – Present
University of Minnesota   *Minneapolis, MN*
- Helped lead the largest Computer Science club at University of Minnesota with **50+ active members**, organizing weekly technical workshops and coding competitions.
- Increased semester-over-semester membership growth by **30%** through improved social media campaigns, campus partnerships, and first-year student outreach initiatives.
- Coordinate and host coding competitions with **50+ participants**, managing logistics, problem-setting, and judging for algorithm challenges and hackathons.