

# Allan (AJ) King

651-341-3095 | [ajking5153@gmail.com](mailto:ajking5153@gmail.com) | [linkedin.com/in/ajking](https://www.linkedin.com/in/ajking) | [github.com/ajking](https://github.com/ajking)

## EDUCATION

### University of Minnesota, Twin Cities

Minneapolis, MN

*Bachelor of Science in Computer Science*

*Aug. 2022 – May 2026*

- **GPA:** 3.5 - Deans List x4
- **Relevant Course Work:** Algorithms and Data Structures, Program Design and Development, Machine Architecture & Organization, Advanced Programming Principles, Operating Systems
- **Clubs:** Social Coding Club, Big 10 Esports team, Pickle ball Club

## EXPERIENCE

### Teacher

April 2024 – Aug. 2024

*Tech Academy*

*Eden Prairie, MN*

- Created engaging Minecraft scripts to introduce students to programming concepts
- Instructed students on basic artificial intelligence concepts
- Taught Python programming to 20+ students, improving their logical problem-solving skills
- Collaborated with fellow educators to enhance the learning environment

### Early Work Experience

2020 – 2023

*City of Eagan & Jersey Mike's Subs*

*Eagan, MN*

- Public parks maintenance
- Worked collaboratively with team members on food and other preparations to deliver superior customer service

## PROJECTS

### Personal Portfolio Website | *React, Node.js, CSS, Git*

Dec. 2023 – Present

- Developed a personal portfolio website using React, React Router, and Node.js
- Implemented a MongoDB Atlas-integrated backend with Express.js

### Drone Simulation of College Campus | *C++, Docker*

Oct. 2024 – Jan. 2025

- Designed a drone simulation for a university campus in C++
- Implemented pathfinding algorithms for autonomous drone movement
- Used Docker for containerized deployment and testing

### AI Strategy Optimization for Reversi | *Python, AI, Heuristic Algorithms*

Jan. 2024 – Present

- Conducted an in-depth analysis of AI algorithms in Othello, implementing various strategic approaches.
- Implemented advanced adversarial search techniques: Minimax, Alpha-Beta Pruning, and Monte Carlo Search.
- Evaluated computational tradeoffs between efficiency and accuracy in strategic decision making.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, OCaml

**Frameworks:** React, Node.js, JUnit, Express.js

**Developer Tools:** Git, Docker, Visual Studio, PyCharm, IntelliJ, Unix

**Libraries:** pandas, NumPy, Matplotlib

**Methodologies:** Agile, Scrum, Waterfall, Spiral

**AI:** Cursor, v0