

# Allan (AJ) King

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## EDUCATION

### University of Minnesota, Twin Cities

Minneapolis, MN

*Bachelor of Science in Computer Science*

*May 2026*

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

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C/C++, PostgreSQL, JavaScript, HTML/CSS, OCaml

**Web & Cloud Technologies:** React, Node.js, JUnit, Express.js, AWS ECS

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

**Libraries:** Scikit-learn, pandas, NumPy, Matplotlib

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

**AI:** Cursor, v0

## EXPERIENCE

### Teacher

April 2024 – Present

*Tech Academy*

*Eden Prairie, MN*

- Taught programming concepts such as Python, Java, Game Development, and Robotics to 30+ students
- Instructed students on basic artificial intelligence concepts
- Created Minecraft scripts to keep students entertained
- Led and engaged with up to 4 other STEM instructors, providing individualized support to students

### Web Developer Intern

Feb. 2025 – Present

*HireMeg*

*Remote, Contract*

- Made content and layout updates on a small business website to improve visibility and branding consistency
- Helped increase site engagement by optimizing homepage structure and simplifying navigation

### Early Work Experience

2020 – 2023

*City of Eagan & Jersey Mike's Subs*

*Eagan, MN*

- Maintained and improved park grounds across 1,370 acres, enhancing the experience for daily visitors
- Resolved citizen concerns with efficiency, ensuring a positive environment
- 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. 2024 – Feb. 2025

- 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

- Utilized design patterns such as Factory, Decorator, Singleton
- Collaborated in an **Agile** environment to ensure proper development
- Implemented pathfinding algorithms for autonomous drone movement
- Used **Docker** for containerized deployment and testing

### Customer Segmentation Model | *Python, Scikit learn, KMeans, PCA, EDA*

Jan. 2025 – April 2025

- Built and evaluated clustering models like KMeans and DBSCAN using PCA to segment customers
- Evaluated clustering performance using Silhouette Score and Davies Bouldin Index to assess model cohesion
- Visualized cluster separation in 2D and interpreted results to inform targeted marketing strategies
- Compared algorithm performance with metrics to select the most reliable model for real world deployment