

# Andrew Kim

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## EDUCATION

**University of Wisconsin – Madison**

*B.A. in Computer Science, Dean's List*

**GPA:** 3.8/4.0

**Courses:** Operating Systems, Databases, Graphics, Algorithms, Data Structures, Discrete Math, Linear Algebra

**Honors:** National Merit Finalist, U.S. Presidential Scholar Candidate

*Madison, WI*

*Aug 2023 - May 2027*

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, JavaScript/TypeScript, SQL, C++, HTML/CSS

**Libraries/Frameworks:** React, Next.js, Tailwind, Node.js, Pandas, NumPy, Matplotlib, scikit-learn

**Databases/Cloud:** AWS (EC2, S3), SQLite, MySQL, MongoDB

**Developer Tools:** Git, Docker, VS Code, Linux

## EXPERIENCE

### Project Manager

*Data Science for Sustainable Development*

*Dec 2025 - Present*

*Madison, WI*

- Lead a team of 5 developers to build a route optimization tool for the Badger Prairie Needs Network food pantry
- Implement a Vehicle Routing Problem (VRP)-based solution to partition 300+ delivery addresses and balance route durations using Google Maps and OSRM APIs
- Manage GitHub workflow (issue creation, task assignment, pull request review) to align development with client specs
- Deploy Google Cloud hosting, develop backend database with address caching to improve usability and performance

### AI Agent Builder Intern

*NeuralSeek*

*Aug 2025 - Sept 2025*

*Remote*

- Completed an intensive 6-week program on agentic AI design, prompt engineering, and LLM workflow integration
- Built AI study assistant that decomposes topics into subproblems, retrieves trusted sources, and generates study plans
- Implemented multi-step agent workflows for subject classification, planning, and source ranking
- Earned certification in agent development and collaborated with a peer cohort on real-world deployment strategies

### Software Developer

*Data Science for Sustainable Development*

*Oct 2024 – May 2025*

*Madison, WI*

- Developed features for “library” [search engine](#) in the Better Evidence Project at George Mason University
- Engineered a Python and Go script to generate metadata and thumbnails for 3000+ research papers in AWS S3
- Automated metadata generation for uploaded PDFs using Bedrock API, cutting ~5 minutes of manual entry per paper
- Coordinated with peers to fulfill project specifications and deploy search engine on researchers’ webpage

### Course Assistant

*University of Illinois at Urbana-Champaign*

*Sept 2021 – Dec 2021*

*Urbana, IL*

- Recorded interactive video walkthroughs for 6 topics on the [website](#) for CS 124: Intro to Computer Programming
- Applied key programming practices in Java and Kotlin in one-on-one office hours and student lessons

## PROJECTS

**Ode de Parfum (Ongoing)** | *Python, FastAPI, React, Tailwind, Next.js, Flask*

- Develop a full-stack web application that generates custom fragrance profiles from Spotify tracks
- Integrate Spotify, Genius, and Librosa APIs to extract audio features and lyrical sentiment for song classification
- Generate structured top/middle/base fragrance notes using OpenAI API and Hugging Face emotion models
- Design and build a responsive frontend with React, Next.js and Tailwind CSS

**Predicting Cancer Rates with Water Quality Data** | *Python, Pandas, Numpy, Scikit-learn, Matplotlib*

- Studied impact of water chemical levels on cancer rates under Professor Suma Bhat
- Built random forest model in scikit-learn to classify US counties as “at risk”
- Found 2.7+ ppm of nitrate and 0.006+ ppb heptachlor correlated with increased cancer risk, in contrast to 10 ppm and 0.4 ppb EPA limits

## ADDITIONAL INFO

**Interests:** Drums, Soccer (Real Madrid), Table Tennis, Hiking

**Languages:** English, Korean, Japanese