Aiden Barnard

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EDUCATION

University of Kansas — Lawrence, KS
Bachelor of Science in Computer Science, Minor in Spanish | GPA: 4.0 — *August 2023 – May 2026*

Involvements: ACM, AI Club, Upsilon Pi Epsilon, Honors
Coursework: Data Structures & Algorithms, Software Engineering, AI, Databases, Embedded Systems, OS

PROJECTS

TuahTone | *Next.js (React), Firebase, Spotify, Lyrist, OpenAI* — November 2024 – Present
- Designed the front-end of a diversity-focused web-app with UI/UX principles, enhancing accessibility & engagement
- Integrated Spotify API & Lyricist API to fetch playlists with song lyrics, enabling automatic flashcard generation for language learning
- Collaborated in a 3-person team by implementing **Firebase** for authentication and database management, resulting in **1st place** in Diversity & Inclusion track

ResuMe | *Next.js (React), Typescript, Pinata, AWS,* OpenAI — September 2024
- Applied **Agile** methodologies in creating AI resume enhancement software, improving team collaboration
- Established cloud storage with Pinata's Files API to upload documents, eliminating local document management
- Developed a resume feedback feature by utilizing **AWS** Bedrock to analyze files, providing user-tailored feedback
- Managed version control with **Git** across **35 commits**, ensuring merges and rebases maintained code integrity

Portfolio Website | *Next.js (React), TypeScript, Vercel* — July 2024 – Present
- Showcases university accomplishments and personal projects
- Presents contact form with meeting scheduler for private tutoring and mentoring services
- Applied **SEO** best practices to enhance website visibility and search engine ranking

INVOLVEMENTS

Lightning Talk: K Nearest Neighbor Algorithm — September 2024
ACM — *Lawrence, KS*
- Presented applications and limitations on KNN to a crowd of **60 attendees**
- Discussed time-space complexity, lazy learning, and its role in supervised machine learning
- Demonstrated practical implementations of the algorithm, using Python for real-word scenarios
- Reviewed KD trees, ball trees, and graph structures optimized for large datasets

Mentor — October 2024 – Present
Upsilon Pi Epsilon — *Lawrence, KS*
- Provided guidance on course selection and study resources to promote successful learning
- Advised students on academic opportunities and involvements to enhance professional development
- Facilitated a welcoming environment, encouraging mentee to excel and feel supported

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript/TypeScript, HTML/CSS, SQL, Swift
Frameworks: Next.js, TailwindCSS, SwiftUI, Selenium
Developer Tools: Git, Bash, ZSH, Shell Scripts, Firebase, AWS
Libraries: React, Pandas, NumPy, BeautifulSoup

AWARDS AND HONORS

Chancellor Merit Scholarship — August 2023 – Present
University of Kansas

Dean's Scholarship — August 2023 – Present
School of Engineering, University of Kansas

1st Place – Diversity in Computing — November 2024
Hack K-State, Kansas State University