

Hannah Ahn

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EDUCATION

Williams College

September 2019 – December 2023

Bachelor's Degree in Computer Science

Relevant coursework: Data Structures, Computer Organization, Human-AI Interaction, Programming Languages, Algorithm Design & Analysis, Theory of Computation, Computer Graphics

WORK EXPERIENCE

Headstarter AI

Position: Software Engineering Fellow

July 2024 – Present

- Building 5+ AI apps and APIs using **NextJS**, **OpenAI**, **Pinecone**, **StripeAPI**
- Developing projects from design to deployment leading 4+ engineering fellows using **MVC** design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on **Agile**, **CI/CD**, **Git**, and microservice patterns

eWay Learning Corporation

Position: Instructor

June 2016 – Present

- Teaching 150+ students of all ages coding, AP Computer Science, Scratch, mathematics, English, Spanish, SAT bootcamp, etc.
- Collaborating with the management team to work on improving new or existing curriculums

Give2Friends Foundation

Position: Founder and President

June 2013 – Present

- Founded a non-profit organization in order to help individuals or groups in need by providing monetary funds or services
- Acting as a team lead for a group of five developers - using **scrum** and **agile** methodologies - to create and collaborate on various programs requested by various organizations like churches or companies
- Utilizing **React.js**, **MongoDB**, **Tailwind**, and **Node.js/Express**
- Integrating third-party APIs to provide interactive functionality including community announcements and navigations

Williams College

Position: Machine Shop Research Assistant

Sept 2019 – Nov 2021

- Designed and created equipment that is requested by college staff members or students
- Programming for the UMC 500 CNC machine to direct where each part moves to

Position: Computer Science Research Assistant

July 2020 – Sept 2021

- Conducted research on Human-Computer/AI Interaction to make Bayesian Knowledge Tracing (**BKT**) and Deep Knowledge Tracing (**DKT**) more accessible for the education field, optimizing human and machine learning
- Programmed Explainable Artificial Intelligence (**XAI**) models that gamify **DKT** and **BKT** concepts
- Worked closely with research colleagues to gauge the effectiveness of the explainables for **BKT/DKT**

Position: Intro to Computer Science Teaching Assistant

Jan 2021 – May 2021

- Guided students through labs, assignments, and homework
 - Designed and revised labs and assignments for professors before being distributed
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PROJECTS

USA Job Search

- Created a job search tool for users to find careers by location and occupation type
- Includes a sorting and filtering function, a login and signup page, and a bookmarking feature
- Built using React, TailwindCSS, MongoDB, Express.js, and Node.js; created using Adzuna API

Deep Knowledge and Bayesian Knowledge Tracing Explainables

- Self-designed Explainable Artificial Intelligence (**XIA**) projects that function to explain **DKT** and **BKT** in a gamified, more understandable fashion using **HTML/CSS**

Sheepgate (ongoing)

- Creating a website for a small church, displaying church updates, photo gallery, etc.
 - Includes a client-side and server-side, allowing the church staff to upload blogs, photos, and videos using a user-friendly UI
 - Building using React, TailwindCSS, MongoDB, Express.js, and Node.js
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RELEVANT SKILLS AND INTERESTS

- **Programming/engineering experience:** Java, JavaScript, Python, C, R, C++, HTML/CSS, React, Node.js, MongoDB, Express.js, Scratch, Git, Bootstrap, Chart.js, and TailwindCSS; AutoCAD, SOLIDWORKS