
NYC • j.hegstad@columbia.edu

*Leader & member of SWE teams — project experience in Python, Java, C, C#, SQL, TypeScript
cybersecurity work experience — building Augmented Reality projects — experimenting with LLMs*

Education

Columbia University, Engineering: 2023-2026
Computer Science Major, Stats Minor
4.00 in CS, Dean's List

New York, NY

Coursework:

- Advanced Programming - C, Unix, TCP/IP, C++
- Intro to Databases - SQL, Python, HTML
- Data Structures - Java
- VR & AR (Grad-Level) - JS/TS AR dev., research analysis
- Discrete Math, Linear Algebra, Probability & Statistics
- UI Design, 3D UI Design, Applied Stats Computing (Next Semester)

Experience

Hess Corporation

Minot, ND

Cybersecurity and Field Automation Intern - Summer 2024, full-time

- Combined hundreds of overlapping policies/recommendations into a unified dashboard (MS Office)
- Hand-built a training board for field automation workers; Conducted on-site network/device assessments
- Built a JS/Python *MS Copilot API* to adhere to data security policies while using LLMs
 - Excel x Python tool to automate textual analysis on hundreds of rows
- Proposed and set up a self-populating knowledge graph to centralize company information

Columbia Build Lab - Jan-May '25, Part-time SWE internship with Columbia startup

Leadership & Activities

Columbia Space Initiative (NASA SUITS mission) | **Co-Lead '24-'25, Developer '24**

- C# Unity AR development, inter-team networking, agile development methods

Columbia Undergraduate Scholars Program | **C.P. Davis Scholar** (Top engineering admits)

Poker Club, Climbing Club, Effective Altruism Club | Member

Projects

[My Website](#)

AR, Music:

- SUITS-23-24-HMD** - Hololens 2 astronaut guidance system, successfully tested at Johnson Space Center
- Winter Internship** - Snap AR glasses ⇔ AI Knowledge Manager (Typescript, LLMs)
- VR & AR** - Snap AR glasses guitar training app (Typescript/Javascript)
- Guitar Trainer** - Chord/scale manipulation program (Python)
- Jazz Guitar Site** - Jazz guitar chord & song database/web app (SQL, Python)

AI/Other:

- Personal GPT** - ChatGPT clone CLI using OpenAI API (Python)
- BigRedHacks (BRH)** - AI note management extension/web app (Python, JS, SQL, OpenAI)
- Devfest Hackathon** - Journal-based podcast recommendations (Python, OpenAI)
- Advanced Prog.** - Web server from scratch (C)

Skills & Interests

Skills: Proficient in Python, Java, C, C#, SQL, Typescript, MS Office; Moderate, JS/HTML/CSS, React, AWS

Interests: Blockchain, AI/ML, data analysis, LLMs, VR & AR; poker, electric guitar