

# Corbin Lienau

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## EDUCATION

### Georgia Institute of Technology

Aug 2027

*Master Science in Computer Science*

### Western Governors University

Feb 2025

*Bachelor Science in Computer Science*

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, C, C++, x86 Assembly

**Technologies:** React, Node, Spring, Angular, Docker, Tailwind, Postman, Git

**Certifications:** ITIL v4 Foundation, Linux Essentials

## EXPERIENCE

### AI Prompt Engineer

Nov 2024 – Present

*Outlier*

*Remote*

- Engineer prompts for multimodal image and text-to-text machine learning models across multiple domains
- Implement Reinforcement Learning from Human Feedback techniques to train large language models
- Collaborate with cross-functional teams to meet key performance indicators
- Develop comprehensive grading systems for evaluating system instructions and model responses, leading to a 30% improvement in overall output quality and client satisfaction

### Computer Science Tutor

Jan 2024 – May 2024

*Tutor.com*

*Remote*

- Provided one-on-one tutoring of core mathematics, data structures, algorithms, and object-oriented programming
- Debugged and optimized student code, introducing efficient coding practices and software engineering principles
- Created UML and ERD diagrams to illustrate software architecture and database design
- Conducted C/C++ workshops for memory management and pointer arithmetic, resulting in a 25% increase in students' code optimization skills

## PROJECTS

### Machine Learning Chrome Extension

- Developed machine learning Chrome extension to detect malicious websites with 95% accuracy
- Improved model performance by 15% through feature engineering, extracting URL indicators of malicious websites
- Integrated ML model in Chrome with TensorFlow.js, enabling real-time malicious website detection for users
- Created user-friendly extension protecting users from threats leveraging machine learning techniques

### Home Media Manager

- Developed a full-stack home media manager application utilizing Spring, Angular, and Node.js
- Implemented streaming capabilities within a home network, enabling content delivery to any device
- Deployed app in Docker for easy installation, scalability, and consistent performance across different environments
- Integrated PostgreSQL database for efficient data management, optimizing cataloging and retrieval processes

### Blockchain Photo Tracker

- Engineered a blockchain-based web application using Web3.js, enabling secure storage and tracking of user photos
- Implemented a Solidity smart contract for data management, ensuring immutability and transparency of metadata
- Integrated Mapbox API to create an intuitive and visually appealing user interface, enhancing the user experience
- Utilized Hardhat and Node for backend development and testing, resulting in successful unit and integration tests

### Operating System Kernel

- Developed operating system kernel, leveraging C++ and both x86 and ARM assembly languages
- Implemented basic file system and I/O operations, enabling efficient data storage and retrieval
- Designed and developed a preemptive process scheduling algorithm, optimizing CPU utilization
- Created a comprehensive memory management system, effectively allocating and deallocating resources