

ALDER FRENCH

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Website: <https://humanist-bean.github.io> - **Github:** <https://github.com/humanist-bean>

EDUCATION

Bachelor of Science, Computer Science, University of Oregon, OR, USA - GPA: 3.33 - June 2023

Relevant Coursework: Artificial Intelligence, Data Structures, Algorithms and Complexity, Game Programming, Operating Systems, Calculus with Theory

SKILLS

- Programming Languages: Python, C, C#, C++, Solidity, JavaScript, TypeScript, PHP, HTML, CSS
- Platform/OS: MacOS, Linux, Windows
- Applications & Frameworks: PyTorch, Unity, Web3js, WordPress, Angular, TensorFlow, Selenium

PROJECTS

- **HungryAI - Combo Food Image GAN:** modified and trained SSAGAN model to generate images of combination foods after only being exposed to images of individual foods during training to experiment with zero shot learning and synthetic data generation. ML models were made with **PyTorch** and **ChatGPT** was used for label generation.
- **Duck Simulator Video Game:** Worked with 2 fellow programmers in my game programming CS class to create a game using **C#** and the **Unity3d** framework. Our game was a 3d platformer in which you control a Duck and try to do parkour, fight enemies, and collect feathers to win the game. Building the game with my colleagues was a lot of hard work but also very fun!
- **Mountain AI:** Built an AI that tries to identify mountains given their images using **Selenium** and **FastAI**. Most of my work went into the Python image scraper, FastAI did the heavy lifting training the AI models once the I was able to provide it with 150,000 images of mountains from Bing Images.
- **Custom WordPress Application:** Back in my freelance web developer days I created a WordPress application for a client so that he could easily manage listings on his car sales website with **WordPress**, **PHP**, **HTML**, **CSS**, and **JavaScript**.
- **Encrypted messaging on the Ethereum Network:** Researched whether it was possible to encrypt, send, and decrypt messages on the Ethereum blockchain with users' public and private keys for a client who contracted with No Cash Value, LLC using **Web3js**.

EXPERIENCE

2021 - 2022: **OWNER**, NO CASH VALUE LLC

- Contracted to conduct blockchain research and development for Tree Cloud Products
- Researched authentication methods on ETH blockchain, for better management of NFTs
- Tested and confirmed that it is possible to send encrypted messages over the ETH blockchain using users' public (addresses) and private keys using web3.js as well as manually coded JSON-RPC calls

2019 - PRESENT: **FREELANCER**, WEB DEVELOPMENT AND MARKETING CONSULTANT

- Developed websites using WordPress, HTML, and JavaScript for various clients across the country
- Created and managed google ads campaigns, optimized websites' SEO, and collected traffic data

2020: **BIKE PATROL**, ADVANCED SECURITY INC. - EUGENE, OR

- Monitored downtown Eugene on a bike to maintain cleanliness and safety
- Worked 60+ hour weeks on multiple occasions to save money for college