Thomas Technology

Software engineer with machine learning experience and a physics foundation.

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WORK EXPERIENCE

Co-Founder and CEO, *Crimata Technologies LLC- Milwaukee, WI*   May 20XX-Present
- Conceptualized and designed a machine learning powered platform for writing voice-driven applications which is launching April 20XX (Python, C, JavaScript, SQL, https://crimata.com).
- Designed and trained a neural network that classifies the recipient of an audio message with 92% accuracy, enabling users to enjoy a digital messaging experience that resembles in-person conversation (TensorFlow).
- Set-up and maintained headless Linux server for backend services (Linux/Unix).
- Recruited, motivated, and directed a team of 3 programmers in an Agile environment, consistently producing scalable, maintainable, and production-ready code.

Engineering Intern, *Rexnord Corporation- Milwaukee, WI*   May 20XX-August 20XX
- Prototyped an IoT sensor for a smart bearing that measures heat and vibration of bearings, enabling customers to perform preventive maintenance to minimize downtime (C++).
- Produced a study which found that direct drive systems for process and motion control can be up to 50% more efficient for smaller loads.

Engineering and Design Intern, *Advanced Design Concepts, inC.- Milwaukee, WI*   May 20XX-August 20XX
- Prototyped a new socket tightening system for iFit Prosthetics that is smaller, making it easier to wear clothes over the leg, resulting in a 20% overall improvement in customer satisfaction.
- Reverse engineered various components for clients using a 3D scanner and CAD.

ADDITIONAL WORK EXPERIENCE

Physics and Math Tutor, Xavier University- Cincinnati, OH   August 20XX-August 20XX
- Taught physics and calculus concepts to undergraduate peers in 1:1 and group settings using differentiated learning methods

Physics Research Assistant, *Xavier University- Cincinnati, OH*   May 20XX-August 20XX
- Shadowed university researchers in creating a 2.45 GHz antenna for smart glasses.
- Assisted in simulating RF waves (MATLAB, Ansys).

INDEPENDENT PROJECT EXPERIENCE

Audio Enhancer
- Constructed a fully convolutional neural network that upsamples audio for a better VoIP experience (Python, Tensorflow, Keras, SciPy, https://crimata.com/AIPost).

Brushless DC Halbach motor
- Developed a direct-drive system for an electric longboard which has twice the torque of other motors in its class because it leverages a Halbach magnet array (MATLAB, https://crimata.com/HubPost).

Power over Ethernet Relay
- Created A PCB enabling PoE devices (e.g. security cameras) to be daisy-chained (Hardware design, embedded systems, https://crimata.com/PcbPost).

EDUCATION

Bachelor of Science, Engineering Physics   May 20XX
Xavier University- Cincinnati, Ohio

SKILLS

-Python (fluent)	-C	-C++	-JavaScript
-SQL	-TensorFlow	-Git	-Linux/Unix
-Docker	-AWS	-MATLAB	-HTML