

## RONALD WEIL JR.

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### EDUCATION

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B.S. Computer Science & Engineering, Bucknell University

2025

- Relevant Coursework: Data Mining, Computer Architecture, Design and Analysis of Algorithms, Operating Systems, Full-Stack Web Development, Computer Networks and Security

Physics Minor

2025

- Relevant Coursework: Applied Electronics, Digital System Design, Electrical and Computer Engineering Analysis, Wave Mechanics & Quantum Physics

### SKILLS

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Languages:	Python, C, C++, SQL, Java, TypeScript, JavaScript, Elixir, HTML, Golang, Verilog
Frameworks & Libraries:	React Native, Next.js, Phoenix, TensorFlow, XGBoost, CatBoost
Tools & Environments:	Git, MariaDB, SQLite, Anaconda, Linux
Concepts:	Machine Learning, Data Mining, OCR, Encryption, Embedded Systems, Algorithm Design, Full Stack Web Development, RISC-V

### EXPERIENCE

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Full Stack App Development  
Symptom Detective

June 2024 - January 2025  
*Houston, TX*

- Built backend storage and AI-powered food recognition features for a cross-platform mobile app
- Implemented OCR label scanning and ingredient extraction using machine learning
- Evaluated third-party APIs for cost-effectiveness and supported technical presentation prep

Datadrive Developer  
Bucknell Mechanical Engineering Department

August 2024 - May 2025  
*Lewisburg, PA*

- Designed and implemented MariaDB database and Python interface for sensor data collected from a kinematics research vehicle

### PROJECTS

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Kaggle Home Credit

Tech: CatBoost, XGBoost, Pandas, Imbalanced Learn, SHAP, Seaborn, Matplotlib

- Engineered ML models to predict loan default risk for users without credit history
- Cleaned and processed over 1M rows of highly imbalanced data using advanced techniques (SMOTE, SHAP)

AI Trading Bot

Tech: Hugging Face Transformers, FinBERT, Alpaca API, Torch

- Built a sentiment-driven trading bot that analyzes ETF news headlines and executes trades based on NLP predictions
- Integrated real-time financial data with a neural network to dynamically adjust buy/sell strategy

### LEADERSHIP

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Community Impact Assistant  
Bucknell Food Securities Program

May 2023 - August 2023  
*Lewisburg, PA*

- Coordinated logistics for weekly food drives and supervised community garden volunteer efforts