

Ethan Roland

Atlanta, GA, USA • +1 (678) 833-5505

info@ethan-w-roland.com • github.com/ethan-w-roland • ethan-w-roland.com

Education

Georgia Institute of Technology - Atlanta, GA

B.S. Computer Science & Chinese Minor

- **Honors:** Magna Cum Laude
- **Extracurriculars:** AI Club, Weightlifting Club, WREK Radio Club, Effective Altruism Club
- **Relevant Coursework:** Machine Learning, Agile Methodologies, Databases, Data Structures & Algorithms, NLP

Shanghai Jiaotong University - Shanghai, China

Chinese Language Immersion Program, Short Course

Skills

- Strong communication skills that emphasize business impact while maintaining technical rigor
- More than 5 years experience in Python, Java, C, C++, and JavaScript
- Proficiency in cloud computing platforms including AWS, Azure, and Google Cloud APIs
- Expertise in machine learning tools & platforms including SciPy, PyTorch, TensorFlow, JAX, NumPy, and Pandas
- Background in both traditional statistical analysis and neural network based approaches like Transformers and CNNs
- Frontend development experience using HTML, NodeJS, CSS, Typescript, React, Styled-Components, MongoDB, and SQL

Experience

AGCO Corporation, Atlanta, GA

Senior Data Scientist, Aug 2021 - Present

- Overhauled global industry demand forecasting methodology using custom built time series forecasting models
- Improved combine harvester grain yields by developing new algorithms for the optimization of combine settings
- Worked alongside agronomists to develop new soil sampling methodologies to maximize farm revenues while minimizing costs

Data Analyst, Jun 2020 - Aug 2021

- Applied machine vision and NLP techniques to automate information parsing from technical documents
- Enabled more than \$20 million in potential savings via automation of redundant part identification

Phonology Laboratory, Atlanta, GA

Linguistics Research Assistant, Mar 2020 - Jun 2021

- Developed neural models for speech recognition that operate within the browser to assist with foreign language education

Contextual Computing Group, Atlanta, GA

Accessibility Research Assistant, Sept 2019 - Mar 2020

- Applied signal processing techniques to fMRI data to enable the development of state of the art brain-computer interfaces

Atlanta Tech Village, Atlanta, GA

Startup Engineering Intern, May 2017 - Aug 2017

- Performed full stack web-app development using tools like Node & Angular JS, deployed to cloud service providers

Projects

Capital One @ GT - Student Team Leader

Capstone Design project to develop a web application for Capital One employees

- Used Agile principles to lead a team of six students throughout a two semester web design project for Capital One

Fake News Detector - Term Project

Applied NLP tools to automatically detect healthcare related fake news

- Used NLP techniques to detect if a given social media post contained fake news, including TF-IDF and text classification models