

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
- Web development experience using HTML, NodeJS, CSS, Typescript, React, Styled-Components, MongoDB, and SQL

Experience

AGCO Corporation, Atlanta, GA

Senior Data Scientist, Aug 2021 - Present

- Oversaw all global industry forecasting for an \$11 billion business, created bespoke **forecasting models**, developed ETL processes for data suppliers in four continents, and productionized ML projects using cloud service providers like AWS
- Drove **institutional change** by promoting the adoption of advanced analytics tools and leading data improvement initiatives

Data Analyst, Jun 2021 - Aug 2021

- Alleviated **supply chain constraints** by using ML techniques to analyze unstructured text data, enabling supplier optimization

Analytics Intern, Jun 2020 - Jun 2021

- Enabled more than **\$20 million** in potential savings by helping to automate the identification of manufacturing redundancies

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

- Deployed web services to **cloud service providers** and ensured network functionality under high traffic conditions

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