

Ethan Roland

147 Huckaby Rd, Brooks, GA 30205, USA • (678) 833-5505
ethan.w.roland@gmail.com • <https://github.com/ethan-w-roland>

CAREER OBJECTIVE

Results-oriented Computer Science major currently attending Georgia Institute of Technology, with diverse experiences in software design. Aiming to leverage a proven knowledge of product development, data science, and interpersonal communication to provide value in a full time position.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

B.S. Computer Science & Chinese Minor Candidate (Expected graduation May 2021)

- **Honors:** Honor's Program
- **Extracurriculars:** AI Club, Weightlifting Team, WREK Radio Club
- **Relevant Coursework:** Machine Learning, Networking, Agile Management, Database Management, Data Structures

SHANGHAI JIAOTONG UNIVERSITY

Shanghai, China

Chinese Language Immersion Program

WORK EXPERIENCE

AGCO CORPORATION, Atlanta, GA

Research and Development Intern, May 2020 - Present

- Apply machine learning and data modeling techniques to create automated solutions for the extraction of attribute information from unstructured text data contained within technical documents
- Enable more than \$20 million in potential savings by helping to identify parts redundancies and increase economies of scale

PHONOLOGY LABORATORY, Atlanta, GA

Linguistics Research Assistant, Mar 2020 - Present

- Develop speech recognition tools to enable the analysis and visualization of the speech quality of ESL students
- Implement principles of user interface design to ensure easy understanding of complex technical information

CONTEXTUAL COMPUTING GROUP, Atlanta, GA

Accessibility Research Assistant, Sept 2019 - Mar 2020

- Apply signal processing techniques to fMRI data to enable the development of state of the art brain-computer interfaces
- Develop experimental procedures following proper safety and ethical guidelines

THE WHATEVER NETWORK, Atlanta, GA

Engineering Intern, May 2017 - Aug 2017

- Oversee the agile development of websites using NodeJS, Angular JS, and other templating languages
- Deploy web services to cloud service providers like Heroku and AWS and ensure functionality at scale

TECHNICAL PROJECTS

COVID FAKE NEWS DETECTOR

Applied NLP tools to automatically detect healthcare related fake news

- Used TF-IDF and word embedding vectors to train an SVM classifier to detect if a given social media post contained fake news

ADDITIONAL SKILLS

- Conversational fluency in Mandarin Chinese
- More than 5 years experience in Python, Java, C, C++, and Javascript
- Proficiency in cloud computing platforms, including Microsoft Azure, AWS, and Google Cloud APIs
- Expertise in machine learning tools, including SciPy, PyTorch, Tensorflow, Julia, Numpy, MS Excel, and Tableau
- Web development experience using HTML, NodeJS, CSS, AngularJS, MongoDB, and SQL