

# Ethan Roland

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## CAREER OBJECTIVE

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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

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### 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

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### 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

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### 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

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- 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