SAMUEL STEVENS

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RESEARCH INTERESTS

Natural language processing, machine reading comprehension and interpretability.

EDUCATION

Ohio State University   Target Graduation 05/2021
Honors B.S. in Computer Science & Engineering   *Columbus, OH*
Minor in German
GPA: 3.93

RESEARCH EXPERIENCE

Self-Attention Interpretability in Sequence Classification   October 2019 - Present
Undegraduate Honors Research Thesis   *Columbus, OH*

· Fine-tuned pre-trained language models on existing sequence classification task.
· Manually created adversarial examples to probe language models' understanding of the task.
· Qualitatively analyzed trends in the attention maps of BERT, SciBERT and RoBERTa to identify differences in interpretability.
· Identified a gap in existing literature (no large-scale quantitative measurement of BERT's interpretability on sequence level classification) and (currently) designing experiments leading to a baseline result.

SOFTWARE ENGINEERING EXPERIENCE

Microsoft   May 2020 - August 2020
Software Engineering Intern   *Seattle, WA (Remote)*

· Developed new Power BI feature to improve customers' ability to diagnose data-refresh problems.
· Authored feature spec to communicate intent and implementation details to feature stakeholders.
· Ramped up quickly in a 100 million-line C++ codebase to begin delivering value immediately.
· Demoed project to Power BI customers to demonstrate value and gain feedback.

TicketBay   January 2018 - August 2020
Co-Founder and Lead Developer   *Columbus, OH*

· Collaborated with OSU students to developa mobile app for students to buy and sell football tickets.
· Facilitated the transfer of $165K worth of tickets between more than 7K customers.
· Led system architecture decisions in order to balance ease of development and system performance.

GE Aviation   May 2018 - August 2018
Digital Technology Intern   *Cincinnati, OH*

· Built an end-to-end testing solution automate QA testing of customer-facing web application.
· Applied agile methodology in a collaborative environment to meet specs, despite frequent changes
· Completed integration with existing deployment pipeline, leveraging existing infrastructure and leading to a net positive impact on product quality with no additional developer work.

The Ohio State University   May 2018 - November 2019
Lead Developer   *Columbus, OH*

· Supported a professor's research by developing an online app to distribute rich media.
· Implemented agile methodology to manage 2 student developers in multiple time zones.

GE Aviation   May 2017 - August 2017
INTERalliance Intern   *Cincinnati, OH*

· In-sourced customer-facing search, targeting $300K in savings and 40K customers.
· Led MongoDB integration, giving customers access to previously unsearchable documents.

AWARDS

Hack OHI/O, Best Hack   2019
Accessibility Focused Text Extraction App

· Used Tesseract OCR to extract text from images to provide content in a variety of accessible formats.

Brain Health Hack, Best Project at Large   2018
Parkinson's Disease Tracking App

· Developed an Android/iOS app to track a user's tremors to improve effectiveness of medication.

Hack OHI/O, Best Software Hack   2017
Social Media Trend Aggregator

· Developed an iOS application in 24 hours to aggregate trending topics on Twitter and Instagram.

ADDITIONAL INFO

Club Water Polo Risk Manager   August 2020 - Present

Study abroach in Germany, June   June - August 2019