

Education

Cornell University – GPA: 3.76/4.00 (Dean's List)

Aug 2018 – May 2022, Ithaca, NY

College of Engineering – B.S Computer Science with a minor in Operations Research and Management Science

Relevant Coursework – Natural Language Processing, Machine Learning for Intelligent Systems, Computer Vision[†], Machine Learning for Data Science[†], Algorithms, Learning with Big Messy Data, Computer System Organization, Linear Algebra[†], Probability and Statistics, OOP and Data Structures in Java, Discrete Structures, Introduction to Computing using Python[†]

([†]) = teaching assistant)

Professional Experience

Microsoft – Incoming Data & Applied Science Intern

Nov 2020 – Present, Bellevue, WA

Business Applications Group (BAG)

- Joining the BAG team at Microsoft as a Data & Applied Science intern for Summer 2021

Amazon – Research Engineer Intern

Jun 2020 – Sept 2020, Bangalore, India

Amazon India Machine Learning team

- Owned development and integration of an automated data labeling workflow (Active Learning) into an internal AutoML tool to streamline business workflows for 50+ non-technical teams globally
- Decreased costs of labeling data for text-classification tasks by over 65% while maintaining 0.95 precision and recall metrics
- Benchmarked BALD (Bayesian Active Learning by Disagreement) against classical uncertainty and diversity-based sampling methods on 8 Amazon Business datasets – laying the foundation for further internal research on neural active learning
- Built an interactive UI for facilitating the labeling task using Streamlit, AWS Sagemaker, Ground Truth, Step Functions, S3

Cornell NLP Group – Undergraduate Researcher

Sept 2019 – Present, Ithaca, NY

Member of Prof. Claire Cardie's Natural Language Processing lab

- Explored transformer and attention-based generative neural network methods for the counterargument generation task
- Developing a novel architecture leveraging the recurrence mechanism of Transformer-XL and conditional language modeling system of the CTRL model to emulate argumentation strategies like card-stacking for producing higher quality counterarguments

Mu Sigma – Software Engineering Intern

Jun 2019 – Aug 2019, Austin, TX

India's largest data-driven management consulting firm

- Led a team of 3 interns to setup the 1st US-based AI interactive lab to showcase technological capabilities during client demos
- Implemented anomaly detection algorithms like recursive residuals, achieving 71% accuracy on a client's simulated IoT data
- Developed an automated office assistant, *muNerva*, using Flask, Alexa Voice Services, Redis, and OpenCV

Cally – Data Analyst (Remote)

May 2019 – Sept 2019, Ithaca, NY

New York -based startup combining team science and data science to revolutionize team dynamics

- Analyzed 7+ factors identified by Cornell researchers as stimuli of negative mood dissemination through teams
- Increased employee participation (15%) by restructuring surveys based on regression models used to predict response rates

Leadership

Cornell Cup Robotics – CS Team Lead

Feb 2019 – Present, Ithaca, NY

Oversaw development of a distributed system to control Minibot, an educational robot to teach children to code using Google Blockly

- Collaborated with Systems, Electrical and Mechanical sub-team leads to define workflows and implement objectives for Minibot
- Managed an 18-member software team to complete computer vision, database management, and computer networking projects
- Optimized the single-camera vision system by decreasing sensor to GUI lag from ~35s to ~5s by restructuring code base
- Regulated public GitHub, led scrums and code reviews, and pitched marquee features to C-suite of partnering ed-tech startup

Projects

Indian Institute of Management (IIM) – COVID-19 Modeling

Apr 2020 – June 2020, Mumbai, India

- Chosen as part of a 4-student team from a pool of 250+ applicants to collaborate with an IIM professor for a research project
- Expanded on the SIR epidemiological model to account for quarantine and improved parameter estimation for Indian data
- Prepared a quantitative report to be submitted to the Indian government with quarantine/testing recommendations

TextDirect – SMS-based routing (Send "TextDirect" to (+1) 256-488-4302)

Dec 2019 – Jan 2020, Ithaca, NY

- Launched a navigation service providing step by step Google Maps directions as text messages (Twilio, Google Cloud Platform)
- Aimed at benefitting feature phone users and users in areas where internet/mobile data penetration is limited

Skills & Activities

- **Software:** Python | Java | C | Scala | PyTorch | TensorFlow | AWS | SQL | Databricks | Hadoop | Docker | Git | Bash | Linux
- **General:** Leadership | Design Thinking | Project Management | Agile | Scrum | Resource Planning | Teaching
- **Activities:** Theta Tau Professional Engineering Fraternity | Cornell European Business Society | Intramural Soccer
- **Interests:** Linguistics | Tennis | Acting | War Documentaries | Interior Design | Harmonica | Cooking | Manchester United