

AYUSHI SINGH

925-353-5718 • ayushis3@illinois.edu

github.com/ayusheesingh • linkedin.com/in/ayushis3 • ayusheesingh.github.io/

Education

University of Illinois at Urbana-Champaign, Bachelor of Sciences — Class of 2021

Major: Computer Science & Statistics

Technical Skills

Python, Java, C, C++, C#, SciKit-Learn, Pandas, Numpy, Django, SQL, OpenFrameworks, HTML, CSS, Verilog

Professional Experience

Software Engineering Intern, Microsoft — Redmond, WA

Summer 2020

Incoming intern on the Core OS Intelligent Edge team in the Data and Intelligence division under Microsoft Azure

Explore Intern, Microsoft — Redmond, WA

Summer 2019

Created a Microsoft Teams chat bot in C# using the Azure Bot framework to streamline real-time outage actions and automate data collection to help with post-incident analysis

Software Engineering Intern, CloudFabrix — Pleasanton, CA

Summer 2018

Built ML models using Python, SciKit-Learn, and NLP techniques (specifically, the tf-idf statistic) to cluster and classify ticketing data by importance; clustered and classified company sales data to gain insight into customer buying patterns

Innovation Intern, Ameren — Champaign, IL

October 2017 - May 2018

Worked in multidisciplinary teams to create a website connecting Corporate Office to the intern hub using Django, Python, & RESTful APIs (Typeform, LinkedIn, Skype) and uncovered patterns present in Ameren customer data using Hive, PySpark, and SQL for data analysis

Software Engineer Intern, Cisco Tetration Analytics — Palo Alto, CA

Summer 2016

Used protobuf files to analyze flow data retrieved from sensors/agents sitting on each machine and explored possible patterns in conversations and application usage in a data center network

Projects

Research, [CONNECTlab](#)

April 2020

Analyzing EEG data with MATLAB to determine the difference between brain functions and signatures in relation to alertness and attentiveness

[Research](#), Crowd Dynamics Lab (led by Professor Hari Sundaram)

August 2018

Conducting experiments to gather data and using PyMC3 to conduct Bayesian analysis to see if packet count (vs RSSI) will reduce the noisiness in analyzing data regarding indoor localization in BLE environments

TV Shows By Mood

Summer 2018

Generated ML model using SciKit-Learn by labelling and classifying TV shows by mood from the IMDb dataset and created front-end website using Python, Flask, HTML, and CSS

Contour Game, OpenFrameworks game

March - May 2018

Created a game using OpenCV where shapes fell based on contours of the player detected through a computer's webcam

[UIUC Bot](#), Facebook Messenger ChatBot

December 2017

Developed a chatbot, trained using Wit.AI and deployed via Heroku, to answer questions about UIUC

Leadership

[Rewriting the Code](#), Fellow

June 2019 - present

[CS @ ILLINOIS Sail](#), Advisor (2019-present), Co-Director (2018-2019), Staff (2017-2018)

November 2017 - present

[Women in Computer Science](#), Internal VP (2019-2020), Head of Social (2018-2019)

October 2017 - May 2020

[Reflections | Projections \(R|P\)](#), AI & Deep Learning Track Curator

January 2018 - September 2018