AYUSHI SINGH

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Education

University of Illinois at Urbana-Champaign, BS in Computer Science & Statistics   *May 2021*
KTH Royal Institute of Technology, Exchange Semester   *Spring 2020*

Technical Skills

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

Professional Experience

Software Engineering Intern, Microsoft — Redmond, WA   *Summer 2020*
Contributing to OpenTelemetry to establish standard for open source telemetry under Azure Monitor for Containers

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*
Created 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-present*
Analyzing EEG data with MATLAB to determine relationship of brain functions in relation to alertness and attentiveness

Research, Crowd Dynamics Lab   *August 2018-present*
Conducting experiments to gather data and using PyMC3 to perform Bayesian analysis to see if packet count (vs RSSI) will reduce the noisiness in analyzing data regarding indoor localization in BLE environments

Foresight 2020   *Fall 2019*
Developed a web app using NodeJS, ExpressJS, and PHP to recommend users who to vote for based on their surveyed stances; created MySQL and MongoDB databases to store user and candidate data (scraped using BeautifulSoup)

TV Shows By Mood   *Summer 2018*
Generated ML model using SciKit-Learn by labelling and classifying IMDb dataset, created 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 to answer questions about UIUC (trained using Wit.AI and deployed via Heroku)

Leadership

Rewriting the Code, Fellow   *June 2019 - present*
CS @ ILLINOIS Sail, Advisor (2019-present), 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*
ACM x WCS Mentorship Program, Mentor (2018-2019), Mentee (2017-2018)   *June 2018 - May 2019*