# Ansh Sikka

Senior at the University of Minnesota Pursing Computer Science with a Dedicated Track Towards Machine Learning, AI, and Big Data


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## EDUCATION

### Bachelor's of Science, Computer Science
University of Minnesota-Twin Cities

*09/2017 – 05/2020* *GPA: Cum-3.62 | Fall 2019: 3.81*

*Relative School Experience*

- Graduate-Level Software Engineering
- Big Data Architecture (Spark, Hadoop, NoSQL)
- Artificial Intelligence
- Database Fundamentals
- Data Science Fundamentals
- Undergraduate Computer Science Teaching Assistant

## WORK EXPERIENCE

### Cloud Engineering Intern
ExxonMobil

*05/2019 – 08/2019* *Houston, TX*

*ExxonMobil Information Technology (EMIT)*

*Achievements/Tasks*

- Replatformed internal cloud adoption platform in an agile work environment to Microsoft Azure: Utilized blob storage, SQL, KeyVault, SendGrid, and search service.
- Full Stack Web Development: Handlebars.js for frontend and Node.js for backend. Customized open source CMS to adapt to new website format and UX.
- Made the entire cloud adoption web platform content editable: No developer needed to make website changes.
- Teaching assistant to over 100 other interns and employees helping them get started with Azure.

*Contact: Tyler Nix – tyler.j.nix@exxonmobil.com*

### AI and Machine Learning Intern
Quinnox Inc.

*06/2018 – 09/2018* *Chicago, USA*

*IT Solutions and Software Company*

*Achievements/Tasks*

- Built a machine learning-based recommendation system with a 90% accuracy rate that provides a ranked list of top companies and leads to contact for Quinnox's demand generation team
- Used data mining and web scraping libraries such as BeautifulSoup and mechanical soup to retrieve large amounts of useful company, employee, and job data from different sources such as RainKing and LinkedIn to train an ML model and use it to get a list of top companies for contact/sales
- Reduced two months of work from the demand generation team to 8-10 minutes by implementing efficient automation algorithms
- Used big-data oriented libraries such as NumPy and SciKit Learn for the machine learning process
- Given training on machine learning and basic deep learning algorithms/libraries such as PyTorch and Tensorflow

*Contact: Akshay Deshpande, CTO – akshayd@quinnox.com*

## SKILLS

Python | JAVA | SQL | Data Mining | C | C++ | Machine Learning (Analysis) | Azure | OCaml | R | HTML | Android | Javascript | Node.js | Handlebars.js | ReactJS | NoSQL | PostgreSQL | LaTeX | G-Suite

## PERSONAL PROJECTS

University of Minnesota Hackathon (MinneHack): CornadoAI (02/2019 – 02/2010)

- Developed an iOS app using Swift to detect disease in corn within seconds
- Utilized data mining, deep learning from scikit-learn, and Swift/Xcode to develop app
- Top 5 at the MLH hackathon competing with 20+ teams.

Portfolio Website (07/2019 – Present)

- Utilized Node and React to build an interactive web app portfolio website
- Deployed on cloud using GitHub pages

Software Engineering Class: Voting System (09/2019 – 12/2019)

- Using C++, we built a voting system that takes in CSV data as ballot files and automatically processes it. Processing was done in rates of 500000 ballots in under 2 seconds. A GUI was also implemented.
- For the first half of the project, we used the waterfall development methodology: Produced documents such as Software Requirements Specification and Software Design Documentation.
- For the second half of the project, we used the agile development methodology: Held daily scrum meetings about progress in work and used kanban boards to keep track of work.

## CERTIFICATES & HONORS

Honors: Deans List (01/2019 – Present)

*Spring 2019: 3.91 | Fall 2019: 3.81*

VR & 360 Video Production (04/2018 – Present)

*Google Daydream Impact and Coursera*

G Suite: Google Cloud (04/2018 – 05/2020)

*Google*