Nathan Joshi

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Career Objective

Energetic college student and eagle scout who is almost finished with a BS in Industrial Engineering and a minor in computer science from the University of Illinois at Urbana-Champaign seeking a full-time position where I can apply and enhance my aptitude in software/web development.

Education

University of Illinois   Urbana-Champaign, IL
Bachelor of Science, Major in Industrial Engineering, Minor in Computer Science   May 2020

Skills

- **Programming Languages:** Python, Java, JavaScript, C++, HTML, CSS
- **Programming Frameworks:** React, Express
- **Databases:** MongoDB, MySQL
- **Cloud:** AWS (EC2, S3)
- **General:** web/mobile application development, statistics, data mining/cleansing, optimization algorithms, machine learning techniques and strategy

Experience

Samba Safety
Data Science Intern   May 2019 - August 2019
- Total Risk Score Model
    - Worked on a model to determine the probability of a monitored driver being involved in an accident, violation, or suspension given their previous driving history
    - Applied feature selection algorithms, feature engineering, and tested several statistical models including neural networks, boosted trees, logistic regression, and naïve bayes
    - Achieved a 5% increase in AUC score (accuracy metric) over team's previous best
- Time Series Analysis
    - Performed a detailed predictive time series analysis on the company's order volume
    - Used R markdown to summarize findings and present it to the chief financial officer of Samba

Projects

Time Tracker Web App   January 2020 - present
- Web application that allows the user to track how they spent their time over the course of the day for the purpose of increasing awareness and productivity
    - Server created with MongoDB and express.js and hosted with AWS EC2 instance
    - Front end created with react.js and hosted in AWS s3 bucket
    - Connected front-end to back-end and managed state with redux

Note: live projects / demos can be found at https://www.nathanjoshi.com/portfolio

Student Consulting for Spraying Systems Company   August 2019 – December 2019
- Data analytics consulting for Spraying Systems Company, a major manufacturer of industrial spray products, focusing on a prototype "smart-nozzle"
  - Developed data ingestion and processing algorithms
  - Created metrics to quantify characteristics of data
  - Used metrics to create a regression model to predict the failure of the nozzle as well as give the customer real time diagnostics.

LaTeX Conversion App   March 2018 – May 2018
- Developed an app that uses machine learning and computer vision to convert a picture of any mathematical expression to its LaTeX equivalent.
  - Developed the front and back end using android studio
  - Connected the app to an external API

Leadership and Activities

Table Tennis Club
Urbana, IL
Member   May 2018 - present
- Organized tournaments and other events for the club
- Helped new members with technique through group and one on one drills

Boy Scouts of America
Naperville, IL
Eagle Scout   August 2015 - present
Senior Patrol Leader   January 2014 - September 2014
- Organized meetings of 100+ scouts and adults, created schedules, and set the agenda
- Started a book drive that collected 2000+ books for Open Books Charity