

Nathan Joshi

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Career Objective

Energetic eagle scout and recent graduate 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

Bachelor of Science, Major in Industrial Engineering, Minor in Computer Science

GPA:

Urbana-Champaign, IL

May 2020

3.14

Skills

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

Projects

Senior Friendly Voice Channel Desktop App

March 2020 - current

- Desktop application for creating online voice channel communities for assisted living facilities whose residents, as the most at risk age group for covid-19, are required to remain quarantined alone in their rooms.
 - Server created in Java and hosted on AWS ec2
 - Front end created in Java with JavaFx

Time Tracker Web App

January 2020 - March 2020

- 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

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.

live projects / demos: <https://www.nathanjoshi.com/portfolio>

code: <https://github.com/nvjoshi2>

LaTeX Conversion Mobile 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

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

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
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