

# David J. Yoon

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## EDUCATION

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**University of Virginia**, Charlottesville, VA

August 2017 – December 2020

*B.S in Computer Science with Minor in Entrepreneurship*

- **Major GPA:** 3.83/4.0 | **Cumulative GPA:** 3.73/4.0
- **Relevant Coursework:** Operating Systems, Algorithms, Data Structures, Computer Architecture, Machine Learning, Information Retrieval, Database Systems, Cloud Computing, Internet Scale Applications

## SKILLS

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**Programming:** Java, Python, C#, C++, JavaScript, TypeScript, SQL

**Frameworks/Tools:** .NET, TensorFlow, Django, Docker, AWS, Google Cloud Platform, Hadoop, React, Node.js

## WORK EXPERIENCE

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**UVA School of Engineering and Applied Science**, Charlottesville, VA

May 2019 – Present

*Undergraduate Research Assistant – Professor Hongning Wang*

- Integrated various learning algorithms into a smart building framework for 5+ common buildings across the country
- Optimized existing machine learning models by evaluating adversarial attacks to existing connected traffic models
- Gained experience with Python, Pandas, Tensorflow, and Keras

**Relativity**, Chicago, IL

May 2020 – August 2020

*Software Engineering Intern*

- Redesigned backend API pipeline to enable easier 3<sup>rd</sup> party app integration and version control for developers
- Executed UI redesign plans and addressed defects for cleaner user experience with the Relativity application
- Gained experience with .NET, C#, TypeScript, Aurelia, Microsoft SQL Server, and Jenkins

**Alarm.com**, Tysons Corner, VA

June 2019 – August 2019

*Software Engineering Intern*

- Developed a backend client/server model that enables the company to troubleshoot and connect lost video cameras to Alarm.com's admin site
- Remodeled system networking pipeline to cleanly pass instructions between cameras, phones, and dealers
- Gained experience with .NET, C#, Git, Android Studio, and JavaScript

## PROJECTS

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**Racial Bias Study in Athletics**

August 2020 – Present

- Performed analysis on high profile articles to identify common words used to describe athletes of certain colors
- Preparing report on where consistencies were found and how often words were used to criticize or praise athletes

**JerseyMarket**

September 2019 – December 2019

- Built a multi-tier architecture soccer jersey marketplace utilizing Docker, Django, and SQLite
- Implemented a working search engine pipeline for user jersey search with Elastic Search and Kafka
- Provided user jersey recommendations by generating co-views using Apache Spark

**Yelp Personalized Recommender System**

February 2020 – May 2020

- Created a recommendation system using NLP that can predict user Yelp review star ratings with 96% accuracy and give personalized restaurant recommendations based on user review sentiment

## LEADERSHIP

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**TedxUVA**, Charlottesville, VA

June 2018 – Present

*Marketing Chair / WebMaster*

- Managed content creation and edited promotional videos for the 2019 and 2020 TEDxUVA conferences

**HackCville**, Charlottesville, VA

October 2017 – August 2019

*Data Agency Co-Lead*

- Coordinated with a small team of UVA students to identify patterns for local businesses in the Charlottesville area