

David J. Yoon

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EDUCATION

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, Internet Scale Applications

SKILLS

Programming: Java, Python, C#, C++, JavaScript, TypeScript, C, HTML/CSS, SQL

Frameworks/Tools: .NET, TensorFlow, Scikit-learn, Django, Docker, Hadoop, React, NodeJS

WORK EXPERIENCE

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 3rd 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, 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

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

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