

Youngsik Yoon

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Education

Purdue University | Honors College

West Lafayette, Indiana

BACHELOR'S OF SCIENCE IN COMPUTER SCIENCE HONORS

Aug 2017 - May 2021 (Expected)

- GPA: 3.63/4.00
- Courses: Data Mining and Machine Learning, Systems Programming, Data Structures and Algorithms, Computer Architecture, Discrete Mathematics, Linear Algebra, Competitive Programming, Object-Oriented Programming, Intro to Statistics, Calculus (I, II, III)

Experience

ExxonMobil

Houston, Texas

SOFTWARE ENGINEERING INTERN

May 2019 - Aug 2019

- Assisting field engineers by building an iOS application to mobilize a .NET desktop project using Swift, Objective-C, and SQL.
- Increasing use cases for the application and saving 1 hour per usage which leads to a global average saving of \$480,000 per year.
- Engaging with clients to identify business features, build a user-centered application, and practice agile software development.

Purdue University, Department of Computer Science

West Lafayette, Indiana

UNDERGRADUATE TEACHING ASSISTANT FOR DISCRETE MATHEMATICS

Jan 2019 - Present

- Assist department faculty with preparing and reviewing practice problems by crafting and covering course content.
- Facilitated discussion and solved problems to around 20 students in multiple 'Practice. Study. Observation.' sessions.
- Course topics included basic logic and mathematics language, proof techniques, algorithms, basic number theory, basic counting, discrete probability, trees, boolean algebra, combinatorial circuits, finite state machines, and context-free grammars and languages.

Image Database Team, Continuous Analysis of Many CAMeras

West Lafayette, Indiana

UNDERGRADUATE RESEARCH ASSISTANT UNDER YUNG HSIANG LU

Jan 2019 - Present

- Design and assembled a storage system for real-time indexing of incoming surveillance streams and make it searchable.
- Constructed a command line interface, designed ER diagrams, setup the image-feature database, and ensured atomicity.
- Utilized MiniIO Object Storage Database for incoming images, Vitess MySQL Database for feature storage, and Python for the interface.

Sandia National Laboratories

Albuquerque, NM

SOFTWARE DEVELOPER INTERN

May 2018 - Aug 2018

- Implemented a cluster-analysis model which grouped texts based on key terms or phrases through stemming and lemmatization using Natural Language Toolkit.
- Extracted training data from historical records to improve a K-means clustering algorithm by 6%.
- Created a data analysis and visualization web application tool on patent data using JavaScript, HTML, and Python.

Projects

Dollar for Dollar, VandyHacks V Hackathon A user-driven Alexa skill which streamlines grocery shopping by helping customers buy items, keep track of current deals, and compare prices. Built with Dollar General item database and Alexa Skills.

Sunshine, BoilerMake VI Hackathon A user-driven Alexa skill and web application that suggests clothing based off of weather and user preference to different weather conditions. Built with MongoDB stitch, TensorFlow.js, DarkSky API, and Alexa Skills.

Google Play Store App Data Analysis, Honors Project A statistical analysis of the scraped Google Play app store data to find trends and patterns related to the market to help developers. Built with R and used ANOVA and Welch two-sample t-test for analysis.

Skills

Languages Java, C++, C, Python, JavaScript, SQL, Swift, bash, Kotlin

Frameworks / Libraries Spark, NodeJS, React, .NETCore, Cocoa

Other Technologies Android Studio, Firebase, Amazon Web Services (Lambda, DynamoDB, Alexa Skills), git

Activities / Honors

2019 **Presenter**, Purdue Undergraduate Research Conference, Poster Symposium

West Lafayette, Indiana

2019 **Mentor**, MiniMake, Hackathon for Middle and High School Students

West Lafayette, Indiana

2018 **Sponsor Prize Winner**, VandyHacks V, Courtesy of Dollar General

Nashville, Tennessee

2018 **1st Place**, Sandia National Laboratories, TITANS Space Blimp Coding Challenge

Albuquerque, New Mexico