

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: 3.70/4.0
- 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

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 reviewing 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

Spring 2019 - Present

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

Purdue IEEE Software Saturdays

West Lafayette, Indiana

WEB AND ANDROID DEVELOPER MENTOR

August 2018 - Present

- (Spring 2019) Hosting weekly android development sessions introducing Firebase, networking, and basic application building.
- (Fall 2018) Fostering bi-weekly full stack development sessions introducing SQLite, ExpressJS, and front-end frameworks.
- Teach students foundation of software development and create a project-based learning experience.

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 data from historical records to train the K-means clustering algorithm.
- Created a data analysis and visualization web application tool using JavaScript, HTML, and Python.

Projects

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.

GeoTrash, EcoMake Hackathon A community-driven web application tool that collects different recycle bin location points. Built with Tornado, a web server written in Python, and Leaflet, a JavaScript mapping application.

Skills

Languages Java, C++, C, Python, JavaScript, SQL, bash, PHP, HTML/CSS

Frameworks / Libraries NodeJS, D3.js

Other technologies Android Studio, Firebase, MySQL, 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