

# Youngsik Yoon

☎ (217) 778 – 9755 | ✉ [yun161@purdue.edu](mailto:yun161@purdue.edu) | </> [jerosik.github.io](https://jerosik.github.io) | 🗣 JeroSik | 🌐 [youngsikyoon](https://youngsikyoon.com)

## EDUCATION

### Purdue University | Honors College

B.S. Computer Science Honors | GPA: 3.72/4.00

West Lafayette, IN

May 2021

**Coursework:** Data Structures and Algorithms  
Object-Oriented Programming  
Foundations of Computer Science

Programming in C (& C++)  
Competitive Programming  
Computer Architecture

Linear Algebra  
Calculus I, II, III  
Intro to Statistics

## PROFESSIONAL EXPERIENCE

### Software Saturdays (IEEE)

Web Development Mentor

West Lafayette, IN

August 2018 – Present

- Fostering bi-weekly full stack development sessions introducing **SQLite**, **ExpressJS**, and front-end frameworks.

### Sandia National Laboratories

Albuquerque, NM

Software Developer Intern

May 2018 – August 2018

- Implemented a **K-Means clustering** algorithm which grouped texts based on key terms or phrases through stemming and lemmatization using **Natural Language Toolkit**.
- Created a data analysis and visualization web application tool using **JavaScript**, **HTML**, and **Python**.

### Rose Little Brand & Associates, P.C.

Albuquerque, NM

Web Developer Intern

October 2016 – May 2017

- Revised company website with **JavaScript**, **PHP**, and **CSS** and gained familiarity with ProLaw Accounting software.
- Optimized the workplace by creating new accounting sub-divisions and recording overdue bills.

### University of New Mexico ECE

Albuquerque, NM

Mentee for Senior Design Project

August 2015 – May 2016

- Improved an infrared radiation shield for a probe station by **A/B testing** different radiation shields.
- Created a visual display of temperatures from heat sensor data using **Python** and **MATLAB**.

## PROJECTS

### IRC Chatroom Server (CS 240 | Programming in C)

April 2018

- Developed an Internet Relay Chat server using **C++** and **Qt Creator**, a cross-platform GUI application framework.
- Allowed users to login with a username and password and access and create multiple chat rooms.

### TimeSwap, Hello World Hackathon

September 2017

- Collaborated on a **Google Chrome extension** using **CSS**, **JavaScript**, and **HTML** that converted the time to the user's time zone to improve the convenience of browsing websites.

### Bughouse Chess App, Personal Project

April 2016 – August 2016

- Created an Android app with **Android Studios** in **Java** that generated a popular 2v2 chess variation game.

## SKILLS

**Languages:** Java, Python, JavaScript, HTML/CSS, C++, C, SQL, bash, MATLAB

**Technical:** Android Studios, UNIX, git, NodeJS, D3.js, React, scikit-learn, Natural Language Toolkit, Qt Creator

## ACTIVITIES / HONORS

### IEEE (Remotely Operated underwater Vehicle)

August 2017 – Present

Software member

- Integrated camera installations into main frame through bash shell scripts.
- Tracked the exchanged data through the an **I<sup>2</sup>C protocol** with an **Arduino** and a **Raspberry Pi**.

### ACM (Special Interest Group AI Team)

August 2017 – Present

- Implemented **A\* algorithm** and multi-agent searches to solve navigation problems regarding the game Pacman.

### Purdue Boiler Breakers

August 2017 – Present

- Taught new members fundamentals and aided organizing events and practices.

### 1st Sandia National Laboratories TITANS Space Blimp Coding Challenge

June 2018

### 2nd Cyber Forensics Challenge, 3rd AITP Challenge, 3rd SigAPP Challenge

March 2018

[U.S. Citizen]