

Sean Joo

✉ joo21@purdue.edu | 🏠 seanjoo4.github.io | 📷 seanjoo4 | 🌐 seanjoo4

Education

Purdue University

B.S. IN COMPUTER SCIENCE

GPA: 3.82 / 4.0

Honors: Purdue Research Conference Presenter, Dean's List, Jeanne P. Alessandro Scholarship

West Lafayette, IN

Aug. 2019 – May. 2023

Work Experience

JPMorgan Chase & Co.

INCOMING SOFTWARE ENGINEER INTERN

Jersey City, NJ

June 2022

Textron Aviation

SOFTWARE ENGINEER INTERN

Wichita, KS

May 2021 – Aug 2021

- Designed improved 498 and 502 error messages by developing machine learning algorithms using Python.
- Analyzed 200+ gigabytes of data provided by Aircraft Recording System II (ARes II) to create a pipeline to clean and evaluate the necessary and relevant data.

Purdue University

RESEARCH ASSISTANT

West Lafayette, IN

Jan. 2021 – May 2021

- Programmed a safe user experience for those with epilepsy or chronic migraine by recognizing pixel changes seen between frames in GIFs that are deemed unsafe in Java.
- Achieved 97% accuracy by analyzing three factors: the ratio of average intensity, percentage of dangerous pixels, and hertz value to determine the threat levels (risky, dangerous, and extreme) of each GIF.

Rutgers University

RESEARCH INTERN

New Brunswick, NJ

July 2018 – Aug. 2018

- Analyzed, researched, and presented specific DNA strands potentially correlated with Parkinson's disease using several databases.

Personal Projects

PurdueEats

JAVASCRIPT, REACT NATIVE, POSTMAN, SCRUM

Jan. 2021 – May 2021

- Worked in an Agile team to recommend future meals based on the user's schedule and meal history by using the Purdue Menus API with machine learning concepts.
- Developed a real-time map to show users their current location and how far each dining court is.
- Engaged users by implementing personalized wait times, recording meals, favorite meals, and notification UI pages.

Reselling 101 on StockX

JAVA

Aug. 2020

- Utilized JSoup's library to complete the web scraping process on StockX.com.
- Profiting \$2000+ from using StockX's database to extract the prices and statistics of shoes to help users make an educated decision on whether or not to sell their inventory.

Ant Colony Simulator

JAVA, XML, HTML, CSS

Jun 2020 – Jul. 2020

- Published an Android game on Google Play Store (220+ downloads) where users manage resources.
- Implemented Google FireBase AdMob and Analytics, Java Backend, and Bootstrap website.

Skills

Languages Java, C, HTML, CSS, JavaScript, Python

Frameworks & Other React, AgileScrum, Postman, Visual Studio, IntelliJ, git, MySQL

Leadership Experience

Purdue University

UNDERGRADUATE TEACHING ASSISTANT

West Lafayette, IN

Aug. 2021 – Present

- Structured office hours and assist labs for Systems Programming (CS 25200) for 250+ students.

Purdue University

ONLINE COHORT AMBASSADOR

West Lafayette, IN

Jan. 2021 – May 2021

- 1 of 19 students selected in the College of Science to enhance the development of students who are online in the Spring 2021 semester due to the COVID-19 pandemic.