Sean Joo

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EDUCATION

Purdue University, West Lafayette, IN   *Aug. 2019 -- Dec. 2022 (Expected)*
B.S. Computer Science, Minor in Mathematics, Certificate in Entrepreneurship and Innovation
GPA: 3.79 / 4.0
Honors: Purdue Research Conference Presenter, Dean's List, Jeanne Alessandro Scholarship

PROFESSIONAL EXPERIENCE

Textron Aviations, Wichita, KS -- Software Engineer Intern   *May 2021 -- Aug. 2021*
- Enhanced 498 and 502 error messages by developing machine learning algorithms using Python.
- Truncated 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, West Lafayette, IN -- Research Assistant   *Jan. 2021 -- May 2021*
- Enhanced user experience for those with epilepsy or chronic migraine by recognizing pixel changes seen between frames in GIFs that are deemed unsafe in Java.
- Analyzed 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, New Brunswick, NJ -- Research Intern   *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, record & favorite meals, and notification UIs.

Reselling 101 on StockX -- Java   *Aug. 2020*
- Utilized JSoup's library to complete the web scraping process on StockX.com.
- Profiting $1000+ 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 shoe.

Ant Colony Simulator -- *Java, XML, HTML, CSS*   *June 2020 -- July 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.

TECHNICAL SKILLS & CERTIFICATIONS

Languages: Java, C, HTML, CSS, Python, JavaScript
Framework & Other: React Native, Agile/Scrum, Postman, Android Studio, IntelliJ, git
Certifications: InsideSherpa JPMorgan Chase & Co. Software Engineering Virtual Experience

LEADERSHIP EXPERIENCE

Purdue University, West Lafayette, IN -- Online Cohort Ambassador   *Jan. 2021 -- May 2021*
- 1 of 19 students selected in the College of Science to enhance the development of communications, programs, services, and events designed specifically for students who are online the Spring 2021 semester due to the COVID-19 pandemic.