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 UI.

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, SQL
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 -- Undergraduate Teaching Assistant   *Aug. 2021 -- PRESENT*
- Hold office hours and assist labs for Systems Programming (CS 25200) for 150+ students.

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 students who are online the Spring 2021 semester due to the COVID-19 pandemic.