Austin Saehaan

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Education

Virginia Commonwealth University   Richmond, VA
Bachelor of Science degree in Computer Science   May 2022
Member of Vietnamese Student Organization

Projects

VCU Course Override Request Management System   Aug 2021 - May 2022
drive.google.com/22-CS305

Yearlong Capstone project in collaboration with VCU's Computer Science Department and other software developers founded to solve concerns with online student class signups

- Showcased program demos to 100+ Fortune 500 representatives, Design Expo judges, Dean's College of Engineering faculty, and the public over the span of 2 days at Stuart C. Siegel Center for the 2022 Capstone Design Expo
- Boosted the productivity of undergraduate admissions staff and advisors by automating the emailing process of course override requests, saving employees at least 40 hours monthly
- Elevated efficiency of student meetings by incorporating automated responses within the emailing process from 30 to 15-20 minutes per meeting
- Parsed over 200 override requests from Google Sheets/Forms within the Google Apps Script environment using JavaScript

Word Sense Disambiguator   Mar 2022
github.com/saehaana/Word-Sense-Disambiguator

Natural Language Processing program that resolves which meaning of the word is activated by use in a particular context

- Achieved a 95% accuracy rate by correctly identifying and tagging proper usage of the word "line" in the sense of "phone-line" or "product-line"
- Developed a machine learning algorithm which resulted in a 38% increase over the most frequent sense baseline
- Generated a 5.5% accuracy correction by catching 7 edge cases through implementation of a confusion matrix in Python

Valorant Match Tracker   May 2021
github.com/saehaana/Valorant-Match-Tracker

Full stack web application where registered users can track profile and weapon statistics from their game match history

- Created a fillable form for user data and implemented various filters to assist players in visualizing their in-game performance
- Developed a secure login system to protect information associated with user accounts
- Expertise in tech stack including: RDBMS: MySQL, Back-end: PHP, deployment to AWS, hosting with Apache web server, and Front-end: HTML, CSS

Skills

Programming Languages: Backend | Java, Python, MySQL, PHP, C • **Frontend |** HTML, CSS, JavaScript
Frameworks: React.js, Bootstrap, Mockito, jUnit, pytest, unit test
Management Tools/Other: Git, GitHub, CI/CD, Jira/Atlassian, Docker, AWS EC2, Agile Methodology, Android Studio

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Experience

Woodburn Endoscopy Center   Annandale, VA
Medical Receptionist   Jan 2021 – Feb 2022

- Reduced total procedure time per patient by up to 45 minutes through effective collaboration with anesthesiologists and doctors in pre-operative procedures for colonoscopies and upper endoscopies
- Optimized front desk and management workflow by coordinating patient-administrative interactions, resulting in an 8-hour increase in productivity every other day
- Managed the facility's screening protocol for COVID-19, arising in the identification of at least 5 positive cases per month before entry