

Ausawin Saehaan

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Education

Virginia Commonwealth University

Bachelor of Science degree in Computer Science

Richmond, VA

Graduated

Skills

Languages: Backend | Java, JavaScript, Python, C, MySQL, Google Apps Script

DevOps: Cloud | AWS EC2, IAM, CodeDeploy, CodePipeline

Frontend | HTML, CSS
Workflows | Git, GitHub Actions CI/CD, Jira, Slack

Management Tools/Other: RESTful API, Postman, JSON, Node.js, Red Hat Linux (RHEL), SAFe Agile, TDD

Frameworks/Libraries: Pandas, NLTK, JUnit, pytest, unit test

Projects

Heirloom

Mar 2023 - Present

github.com/saehaana/Heirloom

A lightweight Discord bot that provides quality of life services for players of the game Apex Legends

- Developed search features for Apex Legends using Discord.js and leveraging Apex Legends Status' API. This replaced the need for web searches and game launches, resulting in faster information retrieval and a better user experience for Discord users
- Designed and implemented an automated queueing system that simplifies group formation and notification for server users; used daily throughout channels and has led to more efficient communications and chat clarity
- Utilized Postman to debug a DSA issue related to GET Request endpoints, successfully identifying duplicated values by reviewing the JSON body and optimized the data retrieval process. Fixing this bug resulted in 100% correct output from an initial 33%.
- Streamlined production code by configuring AWS CodeDeploy/Pipeline and EC2 instances for CI/CD, reducing bot downtime by 60% weekly and improving overall reliability of the service

VCU Course Override Request Management System

Aug 2021 - May 2022

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 our team's panel and program demos to Fortune 500 representatives, Design Expo judges, and the public over the span of 2 days at Stuart C. Siegel Center for the 2022 Capstone Design Expo
- Automated the emailing process of course overrides for undergraduate admissions staff by utilizing Google Apps Script to approve, deny, or respond to requests based on a student's status, which saved advisors and other professors at least 40 hours monthly
- Added preset responses within the automated emailing process on why requests were approved or denied, increasing the clarity of incoming student emails and reduced meeting times roughly 5 minutes by eliminating introductions

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 for correct word usage by identifying and tagging proper utilization of the word "line" in the sense of "phone-line" or "product-line" over large data sets through a supervised learning approach
 - 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 data visualization using a confusion matrix in Python
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Experience

Woodburn Endoscopy Center

Annandale, VA

Medical Receptionist

Jan 2021 – Feb 2022

- Reduced reliance on external IT support dependency by roughly 40%, yielding a monthly savings of \$300 by troubleshooting local network issues, hardware devices and front desk software
- Decreased 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
- Managed the facility's screening protocol for COVID-19, arising in the identification of at least 5 positive cases monthly before entry
- Optimized workflows by coordinating patient-admin interactions, resulting in an 8-hour increase in productivity every other day