

SAI HERNG

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TECHNICAL SKILLS

Language: Python, C, Java, JavaScript, HTML/CSS, MySQL

Frameworks: Django, Flask, Bootstrap, Selenium, JUnit

Tools: Linux, Git, Docker, Firebase, Cassandra, Heroku, AWS, Agile/Scrum

WORK EXPERIENCE

Software Engineer – SciPlay Corp. Cedar Falls, Iowa. 02/19 – Present

- Developed REST API using Python to create tools that simulates A/B test environments
- Slashed manual test time by 40% after integrating Selenium WebDriver for automating game assets
- Expanded regression coverage by implementing bash scripts to facilitate smoke tests
- Accelerated weekly Asset Release by 2 days after leading LiveOps testers in quality assurance process

Systems Researcher – UNI. Cedar Falls, Iowa. 08/18 – 12/18

- Created shell scripts to analyze consistency, availability and partition tolerance of distributed systems
- Vertically scaled datacenter by replicating Docker Nodes on Linux Server using VMware cluster machines
- Achieved inconsistent datasets by modifying quorum configurations using Cassandra's Python SDK

TECHNICAL PROJECTS

Covid-19 Web App – Python, Bootstrap, JavaScript/HTML5/CSS

Built a web application using Django Framework that reports Covid-19 cases. Implemented backend routes using data extracted from Rapid API. Represented data in frontend using Google's GeoChart API.

FLAIRs Compiler – Python, TM Assembly Code

Built a compiler that translated FLAIRs programming language to machine code. Implemented parser, scanner and semantic analyzer to construct Abstract Syntax Tree as input for code generator.

UNIX Shell CLI – C, Bash

Developed UNIX command line interface on Ubuntu Server using processes & defining shell variables.

Penguin Printer – C, Linux Modules

Created a virtual printer module by implementing FIFO (First In, First Out) scheduling algorithm to load documents into a print queue. Modified Linux Kernel to install the printer driver.

EDUCATION

University of Northern Iowa, Dec 2018. Emphasis in Software Engineering

B.S Computer Science, 3.0 GPA, Dean List: 3 Semesters

LEADERSHIP AND AWARDS

Sports Club Management App

Led team of 4 in negotiating requirements with clients and creating specification documents. Designed & developed a robust prototype by implementing an effective linear UX design

Silver Medal in Digital Graphics – Genius Olympiad (SUNY Oswego)

Selected as one of 170 students from 45 countries for an Olympiad that raises environmental awareness. Awarded with a silver medal by submitting a collaged design of Global Warming using Adobe Photoshop