SAI HERNG – Software Engineer

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EDUCATION

Cal State University - Fullerton	**University of Northern Iowa**
M.S Computer Science	B.S Computer Science, Dean's List: 3 Semesters
Expected Graduation: Spring 2024	

Reliable and highly motivated software engineer seeking new learning opportunities. Leveraging skills from previous experience as a test engineer to become a full stack software developer. Passionate in solving problems, improving software quality and development process.

WORK EXPERIENCE

Software Test Engineer – *SciPlay Corp*. Cedar Falls, Iowa. 02/2019 – 08/2021
- 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.

Student Researcher – *UNI*. Cedar Falls, Iowa. 08/2018 – 12/2018
- Created shell scripts to analyze consistency, availability and partition tolerance of distributed systems
- Scaled datacenter by replicating Docker Nodes on Linux Server using VMware cluster machines.

TECHNICAL PROJECTS

E-Commerce Store – *Python, Flask, SQLite, JSON, JWT, Bootstrap, JavaScript/HTML5/CSS*
Built an e-commerce platform that helps vendors sell products online. Developed backend using Flask framework and SQLite. Secured API routes using JSON Web Tokens. Implemented frontend using Bootstrap.

City School Website - www.cityschoolmm.com (*In Progress*) **-** *Bootstrap, JavaScript/HTML5/CSS*
Designing a responsive school website using JavaScript and Bootstrap CSS. Implementing a modern and minimalistic design approach for great user experience.

Medical Scheduling System – *PHP, MYSQL, JavaScript/HTML5/CSS*
Built a web application that assist doctors and healthcare providers to schedule meetups and acquire referrals. Implemented login system with secure password hash and user sessions. Implemented send message feature and custom scheduling forms using CRUD operation on the MYSQL database.

Machine Learning Modelling - *Analysis of Air Pollutants' Impact on Temperature*
Built predictive models using various regression algorithms such as KNN and random forest. Preprocessed large datasets and conducted feature analysis to handle overfitting. Evaluated performance using R-squared and absolute mean error. Visualized results using matplotlib.

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.