Kevin Shao

North York, ON | Cell: (647) 685-6766 | E-mail: kshao@torontomu.ca | Linkedin: linkedin.com/in/kevshao

TECHNICAL SKILLS

Programing Languages: Python, Java, C, C++, HTML/CSS, JavaScript, Bash, Shell
Technologies: Hyper-V, KVM, Git, Github, Gerrit, Jira, TileBuilder, MySQL, Confluence, Jenkins, Pytorch

EXPERIENCES

Silicon Design Engineer, Advanced Micro Devices (AMD)   May 2024 – August 2024
- Designed and implemented optimized database schemas using SQL, delivering industry-relevant data intelligence with a 50% improvement in retrieval speed and enhanced overall query performance
- Ensured data integrity and security by implementing validation, encryption, and error-handling mechanisms, leading to a 50% reduction in data corruption incidents
- Conducted code reviews and collaborated in writing unit tests, supporting our mission of building trusted, reliable software systems that increased code coverage by 35%

Automation Engineer, Advanced Micro Devices (AMD)   May 2023 – April 2024
- Designed and automated dozens of applications for the Navi 32 GPU program achieving more than 70%-time reduction in GPU performance testing in the cloud environment
- Deployed a feature allowing multiple Virtual Functions to one VM in under 30 seconds, reducing setup time from 30 minutes and boosting efficiency by 95%
- Played a pivotal role in improving GPU driver stability, swiftly identifying and resolving failures, which led to a 50% reduction in regression testing time for multiple GPU projects, enhancing product reliability
- Mentored cross-functional and remote teams in optimizing virtualization software usage by providing clear, actionable documentation, resulting in 20% fewer support tickets and fostering a culture of knowledge-sharing
- Reviewed over 100 automated test cases, improving execution efficiency by 50%, and organized weekly meetings to align on program updates and coding requirements

GPU Cloud Developer, Advanced Micro Devices (AMD)   May 2022 – August 2022
- Actively led the Agile development cycle, hosting daily syncs and managing team resources, while leveraging Jira for transparent communication with engineers to ensure comprehensive understanding of individual roles and tasks
- Assisted in manual regression testing, meticulously tracking each step to swiftly pinpoint driver issues which significantly expedited the debugging process
- Acquired versatile skills in cloud environments, overcoming intricate software and hardware challenges, including gaining proficiency in understanding various errors like Function Level Reset on a Virtual Function (VF FLR)

PROJECTS

Shao PokeMart (CSS/HTML), Personal Project   April 2023 - Present
- Developed and designed a website for easy contact access via a QR code, seamlessly redirecting users to all my social media accounts, garnering over 100 users during the peak season
- Continuously acquired knowledge in innovative software interface design, aligning with a goal of delivering useful digital solutions for niche communities to develop a simple and user-friendly website, ensuring ease of use for a diverse range of visitors
- Achieved over a 60% increase in profit and fostered strong relationships within the Pokémon Card community by instructing others on creating websites similar to this one

Suri COVID-19 Discord Bot (CSS/HTML/Python/API's), RU Hacks 2021   May 2021
- Designed a Discord bot that provided users with real-time COVID-19 data, including daily case numbers, vaccination rates, and deaths for Canadian provinces and cities, with over 20 daily active users accessing the information
- Extracted data from the "COVID-19 Canada Open Data Working Group" API database, while effectively organizing the data and presenting the information to the user

EDUCATION

Toronto Metropolitan University (Ryerson)   September 2021 – Expected May 2026
Bachelor of Science: Computer Science
Key Courses: Operating Systems I, Data Structures, Web Systems Development, Linear Algebra, Databases, Artificial Intelligence I, Data Mining, Algorithms