

# JACK YAN

Software Developer

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## SKILLS

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**Languages** C++, C, C#, Python, JavaScript, PHP, HTML, CSS, Batch, Bash

**Softwares** Git, Perforce, WinDbg, Visual Studio, Jenkins, Photoshop, JIRA, MySQL

## EDUCATION

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**McMaster University | Computer Engineering**

Hamilton, ON, Canada | Sep 2014 - May 2019

Bachelor of Engineering | GPA 3.7/4.0

## WORK EXPERIENCE

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**AMD | Senior Software Developer**

Markham, ON, Canada | Jul 2019 - Present

- Technical lead of Fault Management (FM) team
  - Spearheaded roadmap and resource planning for all FM features
  - Led and mentored 3 other developers, provided guidance, delegated tasks, and hosted weekly meetings to aggregate progress updates
  - Designed and developed 6 FM features, oversaw development of 3 additional FM features
  - Enabled kernel mode event logging, crash data collection, and error handling for AMD driver
- Developed Active Crash Recovery, a kernel mode fault management feature to gracefully handles Blue Screen of Deaths (BSODs) to improve user experience
  - Designed and implemented cross-component changes
  - Reduced BSODs by over 60% through Microsoft Telemetry metrics, resulting the most stable Windows Update driver to date
- Technical lead of AMDLog, a kernel mode driver to provide centralized logging infrastructure for all AMD graphics drivers
  - Implemented Callback Objects and function pointers for driver-to-driver communications
  - Facilitated all debug data collection during driver crashes/timeouts
- Technical lead of a graphics driver component responsible for handling all debug data collection
  - Redesigned component and yielded over 10x increase in debug data collected in crash dumps
  - Developed a user mode library to parse over 30k crash dumps per day
  - Streamlined the process of adding new debug data by architecting an automation pipeline, removing ~15 hours per quarter of developer overhead, and reducing incorrect parsing issues from ~4 issues per quarter down to 0

**AMD | Software Developer Intern**

Markham, ON, Canada | May 2017 - Aug 2018

- Designed and developed a data visualization tool using JS, HTML, CSS, PHP, Python, and MySQL to improve company workflow, with over 100 users
- Created and maintained automated Jenkins tests to improve component code promotion rate from <70% to >90% using Python, JS, Bash, and Batch
- Debugged and resolved GPU driver defects with C and WinDbg

**Kingstone | Front-End Web Developer Intern**

ShenZhen, GD, China | Jul 2016 - Aug 2016

- Materialized web pages from UI designs with Javascript, HTML and CSS
- Resolved cross-platform compatibility issues between different web browsers
- Collaborated with back-end developers to create and enhance various front-end web functionalities