

About the Job

Job Description

Do you have a passion for video processing and the desire to change the world? Come and join us. Intel is seeking highly qualified candidates to join our Data Platforms Group, (DPG) as a Software Video Compression Product Engineer Intern. Join the DPG Video Infrastructure Division at the Marine Gateway site in beautiful Vancouver British Columbia. Our team is leading the innovation of SW video compression algorithms at Intel, targeting Intel Xeon CPUs and Data Center platforms. As a member of our team, you will get to take part in producing cutting edge next generation video compression technologies, advancing Scalable Video Technology, (SVT) and help some of the world's leading communication and cloud service providers scale media services with the latest and greatest Intel products. Scalable Video Technology (SVT) is Intel's video compression architecture successfully released into multiple CODEC standard implementations, which provides market leading optimizations on Intel processors designed to scale from edge to cloud.

The Data Platforms Group (DPG) drives new products and technologies from high-end coprocessors for supercomputers to low-energy systems, for enterprise and the cloud as well as solutions for big data and intelligent devices. The group is a worldwide organization that develops the products and technologies that power 9 out of every 10 servers sold worldwide.

Your responsibilities would include, but not be limited to the following:

- Automate and maintain scripts for product-based transcoding workflows and pipelines.
- Maintain open-source products in an agile development process.
- Develop new video coding features and algorithms.
- Implement new features at the video application API level.
- Debug and fix bugs across the SVT Open-Source encoder implementations.
- Script and automate custom scripts for testing and evaluating different video compression products.
- Work with frame works such as FFmpeg and GStreamer.
- Benchmark and validate the performance of multiple products on several platforms.
- Set up debug systems and or performance systems according to precise HW specifications.
- Optimizations for component and system performance quality and ease of use.

The Ideal Candidate Should Exhibit The Following Behavioral Traits

- High motivated individual willing to work under pressure and deliver high quality results on time.
- Excellent written and verbal communication skills.
- Strong quantitative analytical problem solving and conflict resolution skills.
- Effective prioritization and time management skills.

- Stakeholder management strong collaboration tolerance for ambiguity and critical thinking.
- Excellent teamwork ethics skills willing to work in an agile work environment.

Length of internship: 8 Months

This is an entry level position and it will be compensated accordingly.

Qualifications

You must possess the below minimum qualifications to be initially considered for this position. Preferred qualifications are in addition to the minimum requirements and are considered a plus factor in identifying top candidates. Experience listed below would be obtained through a combination of your schoolwork/classes/research and/or relevant previous job and/or internship experiences.

Minimum Qualifications

Candidate must be pursuing a Bachelor's degree in Computer Engineering Electrical Engineering Computer Science or related disciplines.

3+ months of experience in some of the following areas:

- CC programming language.
- Python
- Control tools svn git.
- Command line applications in both Windows and Linux.
- Batch and Bash commands.

Preferred Qualifications

3+ months of experience in some of the following areas:

- Continuous integration frame works such as Jenkins Travis GitHub actions.
- FFmpeg and video rendering software solutions.
- Video compression processing workflows.
- Cloud native orchestration container virtualization edge computing and networking technologies.
- Data Analytics and Marketing

Inside this Business Group

The Network & Edge Group brings together our network connectivity and edge into a business unit chartered to drive technology end to end product leadership. It's leadership Ethernet,

Switch, IPU, Photonics, Network and Edge portfolio is comprised of leadership products critically important to our customers.

Other Locations

Virtual Canada

Work Model for this Role

This role will be eligible for our hybrid work model which allows employees to split their time between working on-site at their assigned Intel site and off-site.

Intel is committed to a culture of accessibility. Intel provides accommodations to applicants and employees with disabilities. Find information and request accommodation here

Citation

“Software Video Compression Product Engineer Undergraduate Internship.” *LinkedIn*,

<https://www.linkedin.com/jobs/view/software-video-compression-product-engineer-undergraduate-internship-at-intel-corporation-3112105882/?originalSubdomain=ca>. Accessed 6 08 2022.