

P4 IDE & application developers for Cisco Silicon One™ based devices

SYRMIA Networks is seeking for an experienced and motivated Software R&D engineer to join the field of Network Technology within our R&D department and work within the same team with CISCO R&D engineers on **developing Software tools for an entirely new CISCO Network IC architecture. We are developing a fully featured IDE (integrated development environment) for P4 application developers targeting Cisco Silicon One™ based devices.**

Our R&D team with the partner (CISCO) are closely working on the new generation of silicon which will be part of all families of CISCO devices that will drive the future of the internet.

You will have a chance to work together with the CISCO R&D team in shaping the future of internet with these new platforms. SYRMIA Networks shares this vision and can be proud that it has a significant part in helping CISCO to make this internet evolution happen.

Why you should join us:

- The result of your work will be integrated into products of world leading companies, and it will change future of internet
- Opportunity to work with worldwide distributed CISCO R&D centers, and learn from the best engineers in the field
- We will enable you and motivate you to grow professionally and academically in cutting-edge technologies
- You will be surrounded with great engineers and even better people
- You will be working in a modern and pleasant environment and have a diverse benefits package (remote work, flexible working hours, parking, private health insurance, fit pass card etc.)

What we are expecting form candidates:

- Want to dive in and not afraid to make important decisions.
- Has a cheerful, positive attitude with good communication skills.
- Are a brilliant software/electrical engineer, regardless of previous experience.
- Can quickly ramp on interdisciplinary domains.
- Love tackling complex problems.
- Close interaction and cooperation internally and with the CISCO team in many different domains.

We need people who are in love with technology and engineering to help us push the limits of what is possible through innovation, determination, and teamwork.

What You'll Be Doing:

- Design & develop plugins & extensions for a fully featured IDE based on VSCode framework to support P4 language network application development and testing using CISCO Silicon One™ family NPU device simulation platform and always keeping in mind the following goals:
 - o Make P4 developers' life easier
 - o Standardize the development process across organization

- One stop shop for all P4 tools
- Increase productivity
- Speed up the troubleshooting process
- Implementing all nice IntelliSense features targeting P4 language constructs
- Implementing well known Microsoft debug adapter protocol
 - Frontend in typescript (VSCode extension)
 - Backend in C++ (Network Device Simulator)
- Adding custom feature plugins designed in coordination with your customers (P4 application developer and SDK developers)

What are we looking for?

- BS or higher in Computer Science or equivalent experience (finished or ongoing BSc / MSc studies)
- At least 2 years of experience developing and maintaining large-scale software projects.
- Strong software design/engineering skills in modern C++, excellent debugging skills, good problem-solving, and analytical skills.
- Strong knowledge of JavaScript/typescript programming languages for VSCode frontend & extension development
- Positive energy, motivation to learn and ability to work as part of a team.
- High level of work autonomy and sense of responsibility.
- Desire for improvement of current skillset in a fast-paced working environment.
- Fluency in spoken and written English.

What would stand out but not required:

- Experience with other programming languages and tools such as Python, ANTLR
- Experience with best practices in GUI architecture design

“This is a unique opportunity to be part of a leading team developing next gen product which will soon handle all internet packets. A few years from now all internet packets worldwide will go through the device we develop!

Cisco Silicon One™ is a revolutionary, ground-breaking technology for our customers and end users for decades to come! The Internet now has a new faster, better, safer engine! “

<https://www.forbes.com/sites/patrickmoorhead/2021/03/29/cisco-maintains-cisco-silicon-one-momentum-with-new-devices/?sh=1a5cc7571dba>

<https://newsroom.cisco.com/press-release-content?type=webcontent&articleId=2218514>

<https://blogs.cisco.com/sp/cisco-silicon-one-powers-the-next-generation-enterprise-switches>

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