

Job Posting:164458 - Position: S25 Software Engineer (SDN Fabric Front-end) 164458 E2

Co-op Work Term Posted: 2025 - Summer
App Deadline 03/17/2025 11:59 PM
Application Method: Through Employer Website
Posting Goes Live: 03/03/2025 11:20 AM
Job Posting Status: Approved

ORGANIZATION INFORMATION

Organization Arista Networks
Address Line 1 9100 Glenlyon Parkway
City Burnaby
Postal Code / Zip Code V5J 5J8
Province / State BC
Country Canada

JOB POSTING INFORMATION

Placement Term 2025 - Summer
** Job Title ** S25 Software Engineer (SDN Fabric Front-end) 164458 E2
Position Type Co-op Position
Job Location Burnaby, BC
Country Canada
Duration 4 months
Work Mode Hybrid
Salary Currency CAD
Salary 78000.0 per year for 40 Major List
Salary Range \$ 6500
Job Description

Arista Networks is an exciting, fast-growing company creating the best software and hardware for running modern datacenter networks. Based in California with a Canadian office in Burnaby, BC, it is run by Silicon Valley veterans and industry titans Andy Bechtolsheim, Ken Duda, and Jayshree Ullal. Arista is developing a new class of integrated network solutions to address the scalability, performance, and reliability requirements of large-scale high performance computing and cloud datacenters. Arista plays a key role in the datacenters of companies ranging from Facebook to Microsoft, from AOL to Comcast, from ESPN to Netflix, from Citigroup to Morgan Stanley.

Check out jobs.arista.com/university to learn more about our internship program.

What's Cool at Arista?

Cloud *Software defined networks* *Network virtualization*

Empowered engineers. Our engineers are empowered with full responsibility for their projects. Our management structure is flat and lightweight -- you are in charge of delivering your work from design to code to test to customer shipment.

Insane amount of automation! We have run close to 20 million tests in our mini-data center that operates 24/7. We put a premium on building and using tools that make everyone super-productive. This translates into quicker turnaround times on new features and products for increased revenue with smaller teams.

We value openness. No part of the company is off-limits, meaning that our engineers have the chance to work on a variety of different areas. All our interns have the same responsibility as our full timers and get to work side-by-side on important, customer-impacting projects.

Job Requirements

The Ideal Candidate

- loves to program and finds satisfaction in creating a well-written piece of code
- doesn't shy away from hard problems and enjoys the challenge of making reliable software
- wants to work side-by-side with the brightest minds in software, systems, and hardware
- learns how things work, just for fun or out of curiosity
- cares about the business too

You have (or want to have) experience with some subset of:

- JavaScript/ECMAScript, HTML5, CSS
- ReactJS, Redux, D3, Vite, RushJs
- Data visualization
- Big Data front-ends

The Job

Software engineers at Arista deliver product features. The core responsibility is writing the code that drives our products. A software engineer is more than just a coding machine; they drive the whole development process including:

- deciding the features to build
- driving the design
- writing the code (duh!) and testing
- documenting the feature
- supporting customers in the field

As part of the WebDev team, you will learn about:

- the difference between a web page and a single page application (SPA)
- how modern web apps are implemented
- data visualization concepts
- data visualization implementation via D3
- ReactJS and Redux
- web app "builds" using Rush/vite/esbuild (transpiling, minification, bundling, splitting)
- functional programming

Interview Information

The interview will include a 45 minute technical component which will involve actual coding (JavaScript). We expect you to debug your code -- impress us with your problem solving skills along with your coding abilities.

Possible Projects

We don't have time for busy work: every project that we do has customers clamoring for it. Along with quick release cycles and an engineer-oriented culture means we always have a slew of interesting projects to tackle. What project you'll work on at Arista will vary a lot depending on our customer demands and your interests. Here are some potential projects:

1) Managing actions for Service Nodes in DMF

This project involves developing the frontend for the Service Node, a high-performance server appliance designed to transform and pre-analyze line-rate traffic. The primary goal is to create a responsive, intuitive, high-performing web interface allowing users to interact with and visualize complex network data in real-time. The project will leverage React and other technologies to build the front end, focusing on performance optimization and seamless integration with backend systems. The frontend will communicate with RESTful APIs to display real-time data, requiring careful attention to detail in data handling and user experience design. Collaboration across teams, including backend developers, product managers, and UX/UI designers, will be essential to deliver a product that meets high usability and performance standards.

2) Monitoring Network Topology Visualization

This project focuses on developing a sophisticated frontend for visualizing data center monitoring and network topology. The goal is to create an intuitive, interactive interface that provides real-time insights into the health and performance of a data center's network infrastructure. Leveraging React and modern web technologies, the project will involve designing a dynamic visualization tool that maps out network topology, including devices, connections, and traffic flow. The interface will offer real-time monitoring capabilities, allowing users to track network performance and identify potential issues. Integration with backend systems will be crucial for retrieving and displaying data from various network monitoring tools and APIs.

More Info

You can find out more information about Arista on our website at www.arista.com or about our internship program at jobs.arista.com/university and at jobs.arista.com

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| Citizenship Requirement | N/A |
| Position Start Date | May 05, 2025 12:00 AM |
| Position End Date | August 29, 2025 12:00 AM |

APPLICATION INFORMATION

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| Application Procedure | Through Employer Website |
| Cover Letter Required? | No |
| Special Application Instructions | |

Please submit your resume and transcript through the following Google Form: <https://forms.gle/yqtPTLjy2xt3uYWw9>

There is no application deadline. Applications are accepted on a rolling basis and the posting may expire at any time. Students are encouraged to submit their applications as soon as they are ready.

We'll be reaching out to successful applicants by email to schedule interviews!