Position: Embedded Software Developer

Company: Fortinet

Location: Burnaby, BC, Canada

Job Type: Paid (Full-time) (30 hrs/wk or more)

Apply By: April 20, 2023

Job Descriptions:

Fortinet is currently seeking an experienced Embedded Software Developer for development of our next generation security solution impacting multiple products of the Fortinet Security Fabric with focus on FortiGate. FortiGate is our award winning flagship product, which consolidates security platforms while delivering unmatched performance and protection. The ideal candidate needs to have sound knowledge of system's development using C/C++, hands-on experience working in Linux/Unix environment and working knowledge of networking and application protocols (HTTP/S, TCP/IP). This is a great opportunity to grow as core member of the team responsible for driving the development of the next generation of Fortinet products.

Job Responsibilities:

- Develop, design, and test the software for Fortinet products
- Maintain, evaluate, tune, and support the implementation of software and firmware products
- Hands-on bug fixes for the current Fortinet products
- Implement new features according to the new feature specifications and TOP3
- Research, investigate, and define new areas of technology to enhance existing FortiGate products or new product directions; re-evaluate the design and implementation of current source code
- Maintain and document code using a source control system
- Instrumental in product road map realization

Please note, we are currently operating in a hybrid working environment which calls for a blend of on-site and remote work.

Qualifications:

- Experience in software development within Unix/Linux environment

- Stronghold of C and data structures required * Strong knowledge or experience with network, e.g. IP, TCP, DHCP, WCCP, DNS, routing protocols, etc.
- Sound knowledge of network concepts and architecture, e.g., IP, TCP, DHCP, WCCP, DNS, routing protocols, etc.
- Capable of switching focus in various situations and applying themselves to quickly learning new technologies and adopting new methodologies
- Excellent problem solving and troubleshooting skills
- Education Requirements: Bachelor degree in Computer Science or similar degree

Application Process:

Application deadline: April 20, 2023
Applying for jobs: Make sure you follow the application instructions closely. To upload your resume and any other requested documents click on "Documents" and "add new". You can upload multiple resumes targeting specific jobs.

About the Company:

Fortinet (NASDAQ: FTNT) is a worldwide provider of network security appliances and the market leader in unified threat management (UTM). Our products and subscription services provide broad, integrated and high-performance protection against dynamic security threats while simplifying the IT security infrastructure. Fortinet is headquartered in Sunnyvale, Calif., with offices around the world. If you're looking for a fast-paced, challenging and rewarding environment, then Fortinet is the place for you. We are an equal opportunity employer offering exciting work, competitive compensation and benefits. Fortinet is looking for the best and the brightest to join our highly motivated team.

Reference:

"Embedded Software Developer (11731)." *UBC Career Services*, https://ubc-csm.symplicity.com/students/app/jobs/detail/44e45cb524a0155db942e57e1cbacf8c.

2075 West Mall
Vancouver, BC V6T 1Z2

April 17, 2023

Fortinet
4190 Still Creek Dr, Burnaby, BC V5C 6C6
RE: Embedded Software Developer (11731)

Dear Hiring Manager,

I'm excited to submit my application for the Embedded Software Developer position at Fortinet through UBC's Careers Online. Since I started studying Computer Science at UBC in 2019, I have gained extensive experience in software development and embedded systems through UBC coursework and previous Co-op positions. As a Computer Science student with hands-on software development experience, I'm confident I'll be a strong addition to the company.

In my most recent role as a Software Test Engineer at NETGEAR, I performed functional, non-functional, and regression testing on software packages of wireless products. My main duties included developing and enhancing automated test scripts in Python for network and security testing of mobile routers, which significantly reduced errors and increased test coverage of the product requirements.

As a junior software developer, I also have sound knowledge of embedded software development in Linux/Unix environments and working knowledge of computer networking and internet protocols such as HTTP, TCP, and IP. I am certain that my strong background in internet technologies will help the team to develop and enhance next-generation internet security solutions for clients.

I believe this position will assist me greatly in pursuing my interest in software development, and Fortinet sounds like a great place to start my career after successfully completing 4 years in Computer Science at UBC Vancouver. I can see myself succeeding in your company as an embedded software developer if given the opportunity to mature under your guidance and leadership and learn from experienced colleagues.

I am certain my technical skills and interests are suited to the Embedded Software Developer position at Fortinet. If my background meets your need, please phone me at (236) 865 0684 or email me at byungsun1819@gmail.com.

Sincerely,

Byung-Sun Park

Byung-Sun Park

Byung-Sun Park

(236) 865-0684 | byungsun1819@gmail.com | 2075 West Mall, Vancouver, BC V6T 1Z2
Linkedin Profile: https://www.linkedin.com/in/byungsun/

Objective:

Full-time position in software development/engineering with a focus on computer networking and embedded systems

Technical Skills:

Language:	C, C++, JavaScript, TypeScript, HTML, CSS, Python, Java, SQL
Technologies:	HTTP, TCP/UDP, IP, Linux/Unix Environments, VPN, Telnet, Socket Programming

Education:

University of British Columbia, Vancouver   September 2019 - May 2024 (expected)

- B.Sc. in Computer Science / Cumulative GPA: 82%
- Courses Taken: Software Engineering, Operating Systems, Relational Databases, Algorithms and Data Structures

Work Experiences:

Teaching Assistant   January 2023 - Present
UBC Department of Computer Science   Vancouver, BC, Canada

- Collaborated with professors and other TAs to deliver the introductory program design course for students who are new to computer science and programming (CPSC 103: Introduction to Systematic Program Design)

Software Test Engineer   May - December 2022
NETGEAR · Co-op   Richmond, BC, Canada

Technology: Python, Selenium, Pandas, HTML, Jira, Confluence, SVN

- Developed and improved automated test scripts in Python for the functional and reliability testing of wireless products, which significantly reduced errors and increased test coverage of the product requirements
- Performed functional, non-functional, and regression testings on software packages for mobile routers; created and tracked issues in Jira and updated information/documents in Confluence

Learning Tech Rover   January - April 2022
UBC Centre for Teaching, Learning, and Technology · Co-op   Vancouver, BC, Canada

Technology: JavaScript, HTML, CSS, WordPress

- Provided Tier-1 IT support by training faculty members on how to use educational technologies, troubleshooting problems that arise, suggesting workarounds, as well as facilitating workshops
- Designed and delivered a JavaScript programming course on Canvas LMS for instructors and future Co-op students

Technical Projects:

React To-Do App   July 2022 - Present

Technology: React, JavaScript, Tailwind CSS

- Implemented a to-do list web application using React and Tailwind CSS
- Gained experience in Functional Components, JSX, State, Props, and React Hooks such as useMemo and useCallback

References:

Available on request

2075 West Mall
Vancouver, BC V6T 1Z2

April 17, 2023

Mr. Teddy Soetanto
Senior Manager, Software Test
NETGEAR Canada
10760 Shellbridge Way
Richmond, BC V6X 3H1

<u>Subject</u>: Requesting a letter of recommendation

Dear Mr. Teddy Soetanto

I hope this email finds you well. This is Byung-Sun Park, who worked as a Software Test Engineer intern at NETGEAR between May to December 2022 under your supervision.

I'm in the process of applying to Fortinet for the position of Embedded Software Developer and want to sincerely ask if you could write a letter of recommendation in support of my application. I have really enjoyed being your team member and contributing to developing innovative networking products at your company.

As a member of your team, I was in charge of the following duties:
- Developing and enhancing automated test scripts for the software packages
- Performing manual and automated testings on the network products
- Planning the test schedule for releases as well as documenting testing resources

Thank you for taking the time to read this email and consider my request. I believe you could provide an honest and positive reference to my potential employer based on your experience with my work ethic and contributions to the team as my former manager.

If you have any questions or need any additional information, please phone me at (236) 865 0684 or email me at byungsun1819@gmail.com.

Thank you.

Sincerely,

Byung-Sun Park

Byung-Sun Park

2075 West Mall
Vancouver, BC V6T 1Z2

April 17, 2023

Ms. Sophie Spiridonoff
Educational Technology Consultant Manager
UBC Centre for Instructional Support
2332 Main Mall
Vancouver, BC V6T 1Z4

Subject: Requesting a letter of recommendation

Dear Ms. Sophie Spiridonoff

I hope this email finds you well. This is Byung-Sun Park, who worked as a Learning Tech Rover at UBC Centre for Instructional Support between January to April 2022 under your supervision.

I'm in the process of applying to Fortinet for the position of Embedded Software Developer and want to sincerely ask if you could write a letter of recommendation in support of my application. I have really enjoyed being your team member and helping instructors to deliver large courses to students.

As a member of your team, I was in charge of the following duties:
- Providing support to training faculty members on how to use educational technologies
- Troubleshooting problems that arise and suggesting workarounds

Thank you for taking the time to read this email and consider my request. I believe you could provide an honest and positive reference to my potential employer based on your experience with my work ethic and contributions to the team as my former supervisor.

If you have any questions or need any additional information, please phone me at (236) 865 0684 or email me at byungsun1819@gmail.com.

Thank you.

Sincerely,

Byung-Sun Park

Byung-Sun Park

2075 West Mall
Vancouver, BC V6T 1Z2

April 17, 2023

Dr. Giulia Toti
Assistant Professor of Teaching
UBC Department of Computer Science
2366 Main Mall #201
Vancouver, BC V6T 1Z4

Subject: Requesting a letter of recommendation

Dear Dr. Giulia Toti

I hope this email finds you well. This is Byung-Sun Park, who has worked as a Teaching
Assistant in CPSC 103 since January 2023.

I'm in the process of applying to Fortinet for the position of Embedded Software Developer and
want to sincerely ask if you could write a letter of recommendation in support of my application.

As a member of your teaching team, I have been in charge of the following duties:
- Leading weekly tutorial sessions and office hours
- Invigilating exams and grading assignments/exams

Thank you for taking the time to read this email and consider my request. I believe you could
provide an honest and positive reference to my potential employer based on your experience with
my work ethic and contributions to the course.

If you have any questions or need any additional information, please phone me at (236) 865 0684
or email me at byungsun1819@gmail.com.

Thank you.

Sincerely,

Byung-Sun Park

Byung-Sun Park