

Hyeong Seon Yoo

Parañaque City, National Capital Region, Philippines

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Ericsson-LG

June 9, 2023

12-13F, LG GASAN DIGITAL CENTER, 189, GASAN DIGITAL 1-RO, GEUMCHEON-GU, SEOUL, 08503, REPUBLIC OF KOREA

Application for Packet Core R&D Software Developer

Dear Sir/Madam,

Thank you for this opportunity for the Ericsson Packet Core R&D developer position. The two areas of interest that I have worked on for the past few years are C and networking. I particularly enjoy discovering new features related to C programming every day, such as the many features of the Standard Template Library. I think I will be a strong addition to the team; in addition to my academic achievements, my experience and communication skills will be an asset to your company.

I have a strong background in data structures and algorithms through my participation in various ICPC competitions through my school's programming team. Throughout these competitions, I have used the C and Python languages extensively. I have also used C++ and Python to accomplish school projects and my thesis. I also have the patience and determination to learn from difficult code and documentation, which culminated in my publication of papers on Software-defined Networking in IEEE recognized conferences on Software-defined Networking.

While I might not be directly experienced in 5G or Packet Core networking, I have the fundamentals and research experience that will be an asset to your company. In addition, my primary field of interest in computer science is networking and lower-level programming, which is aligned with your company's vision of a more connected future. I hope for your consideration, and I would love to work with you in the future.

Sincerely,

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Personal Profile

A recent Korean graduate the Ateneo de Manila University, formerly member of the Programming Varsity. Interested in Open-source Software, Linux, Cloud Computing, and Networking. Looking for concrete experience in working in a project team. Looking for opportunities to use my skills in data structures and algorithms, and research experience on Software-defined Networking to contribute to software development and accessibility.

Education

Ateneo de Manila University

BS Computer Science

Quezon City, Philippines

August 2017 - May 2020, May 2022 - May 2023

- 3.92 / 4.00 GPA
- Contemporary Databases (NoSQL)
- Introduction to Artificial Intelligence
- Object-oriented Software Design and Implementation
- Guided Studies in Declarative Framework Design and Implementation

Projects

Exploring Alternative Topologies in a Software-defined Network QoS Testing Framework

Quezon City, Philippines

Networking Research Group, Ateneo de Manila University

June 2022 - Apr 2023

- Studied the behavior of certain Quality of Service algorithms as implemented in SDNs with real-life network data
- Debugged and refactored existing framework code for testing in Python
- Published two papers listed in "Publicatons"
- Technology: Python, OpenFlow, Linux, GCP, Scikit-learn, Pandas, VLC

Publications

Performance Characteristics of Selected Network Topology in a Software-Defined Networking QoS Testing Framework

Hyeong Seon Yoo, William Emmanuel S. Yu

2023 *Frontiers of Computers and Communication Engineering (FCCE)* (forthcoming), 2023

Building a QoS Testing Framework for Simulating Real-World Network Topologies in a Software-defined Networking Environment

Hyeong Seon Yoo, William Emmanuel S. Yu

2022 *International Conference on Engineering and Emerging Technologies (ICEET)*, 2022

Work Experience

Rakso Computer Technology

Philippines

Intern

June 2022 - July 2022

- Tested and reported bugs for a grades management system for Claret School of Quezon City
- Wrote documentation containing suggestions for the improvement of the same system
- Technologies: MySQL, Laravel

21st Division, Republic of Korea Army

South Korea

Enlisted IT Specialist

November 2020 - April 2022

- Deployed, maintained, processed, and troubleshooted military computer systems.
- Interfaced with users to respond to their immediate problems and needs.

Achievements

2022 **Industrial Engineer Information Processing**, Human Resources Development Service of Korea
 2019 **3rd Place**, Google Tech Challenge, Google Developer Group Philippines
 2019 **2nd Runner-up**, Algolympics 2019, University of the Philippines

Co-Curricular Activities

AdMU Programming Varsity

- Member

2018-2023
- Participated in Programming Competitions, especially the International Collegiate Programming Competition (ICPC) and Algolympics
 - Prepared the AdMU DISCS Programming Open, a programming contest for high school students in the style of ICPC competitions
 - Technologies: C++, Python, \LaTeX , Github

Ateneo Mathematics Society

- Tutor's Pool Head

2019-2020
- Facilitated the AMS Tutoring Services, mainly for mathematics subjects taken by freshmen
 - Facilitated mock exams and review sessions for freshmen calculus courses

Skills

- Programming

Python (Pandas, NumPy, Scikit-learn), C/C++, Java, C#, HTML/CSS, OpenFlow, SQL
- Miscellaneous

Linux, Shell (Bash/Zsh), \LaTeX , Microsoft Office, Git, AWS, DynamoDB, GCP
- Soft Skills

Problem Solving, Research, Teamwork, Patience

Interests

- Linux

I started using Linux in 2012, experimenting with various set-ups and open-source software.
- Competitive Programming

I learning new concepts and solve problems on AtCoder, CodeForces, etc. every day
- Guitar

I started playing the guitar in 2015, mostly playing fingerstyle repertoire.

Languages

- English

Professional proficiency
- Korean

Native proficiency
- Filipino

Conversational proficiency

References available upon request.