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EXPERIENCES

Research Consultant **Ericsson Inc, Montreal** **Aug. 2023 - Present**

- Research and design a root cause analysis framework leveraging Python, Generative AI (specifically Large Language Models) to support critical network missions.
- Collaborated with team of domain experts, published 3+ internal documents and codes; one patent, 2 conference papers and 1 journal paper.

Research Consultant **Ciena Inc, Montreal** **Sep. 2021 - Jul. 2023**

- Maintain and develop a 5G/B5G network slicing simulation utilizing C++ and Python along with Omnet++.
- Research and implement AI-driven algorithms for the service assurance to optimize network resources up to 54.85% and reduce operating costs.
- Collaborated with technical experts, transferred knowledge and codes; 1 conference paper and 1 journal paper.

Senior full stack developer **Egopulse & Silentium VN, HCM** **Aug. 2018 - Jun. 2021**

- Collaborated with a team of engineers to design, develop, test, deploy, and upgrade a microservices-based solution to ensure scalability and reliability for doctor-patient communication and clinic administration.
- Ensured continuous integration and deployment (CI/CD) remained operational by designing comprehensive test plans for new features and maintaining up-to-date unit tests, system tests, and end-to-end test scenarios.
- Performed code reviews to assist team members in minimizing code-related issues and ensuring adherence to coding standards and best practices.
- Assisted new team members in onboarding and becoming familiar with our software systems and development workflow.
- Tech stack: Docker, Java, GoLang, NodeJs, ReactJs, ReactNative, Python, Playwright, Mongodb, Message-Queue.

Software Developer **DEK Technologies, HCM** **Jun. 2017 - Aug. 2018**

- Develop and maintain core middleware for high availability framework based on the Open-SAF architecture for Ericsson network using C++, Python, Java and Bash.
- Participate in code reviews and provide feedback.
- Integrate core middleware on different cloud environments.
- Participate in automated build and deployment processes.
- Support the release activities and documentation.
- Tech stack: C++, Python, Bash, Jenkin, Java, Docker.

EDUCATION

Concordia University, Montreal **Fall 2021 - Present**

Ph.D. in Computer Science

Awards: Concordia International Tuition Award of Excellence, INNOV-R and NSERC research fellowship (2023-2025), Mitacs research fellowship (2021-2023), Concordia FRS bursaries.

University of Information Technology - VNUHCM **Fall 2017 - Fall 2020**

Master of science in Computer Science

Dong Nai Technology University **Fall 2013 - Summer 2017**

Bachelor of Engineering in Information Technology

Awards: 1st prize of Vietnam Maker Contest with Intel Galileo 2nd, Medal of Creative from Ho Chi Minh

SKILLS

Languages: Python, Java, JavaScript/TypeScript, GoLang, SQL, NoSQL, C/C++, \LaTeX , Bash, HTML/CSS.

Frameworks: Micronaut, ReactJS, ReactNative, NodeJs, Playwright, MFC, Pandas, Tensorflow, Numpy, Scikit-learn, Git, Docker, Gitlab CI/CD, Jenkins, MySQL, Redis, MongoDB.

Natural Languages: English (fluent), French (intermediate), Vietnamese (native)