Lai Minh Ha

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Work Experience

Viettel High Technology Industry Coperation **May 2023–Now**

Software Development Engineer

Working on 5G core project, MEC (Multi-access Edge Computing) team, my development work primarily focuses on the NEF (Network Exposure Function) network entity and its Northbound API services.

- Breakdown and analyze the technical requirements in accordance with the 3GPP Release 16 of 5G stand-alone system.
  Design and develop the following services:
  - Procedures for Monitoring (Event Exposure) service.
  - Background Data Transfer (BDT) service.
- Handle the service onboarding procedures for third-party Application Function, include: service provisioning; configuring the Service Level Agreement (SLA); retrieving JWT access token for authentication, authorization through the OAuth2.0 framework.
- Config and Maintain CICD pipeline for the NEF project. The pipeline includes SonarQube scan, unit testing, Kubernetes deployment and functional testing.
- Using Helm chart and Ansible to deploy the 5G core Private as a software package.

DEK Technologies VietNam **Nov 2021–May 2023**

Software Engineer

Worked on the CSCF project, a central component in IMS architecture. My customer is Ericsson from Sweden, one of the world's leading companies in telecommunications.
My responsibilities are in Product Lifecycle Management(team), my work included:

- Took the role of Security Master in my team, ensured the delivered software meets the basic secure-coding standard. The Standards(Rules) are based on the SEI CERT C++ book. Defined a Way-of-Working for secure-coding review, which was omitted at the time I took over.
- Prepared content and perform early System Test for customer's Emergency Package.
- Resolved the Trouble Reports from customer, the remediation then delivered into the integration branch along with other feature teams.

Intel Products Vietnam **Aug 2020–Feb 2021**

Engineering Intern

Worked in the Finish Inspection team, Assembly Engineer department. My work included:

- Inherited the hardwares and machines built from a prior intern and my mentor. Tracked and and troubleshot those Automated Dimensional Visual Inspection(upto 30) machines.
- Used an in-build SQL tool to access and crawled data from VNAT factory. With the provided data, I performed data pre-processing and built a data set for further machine learning activities.
- Trained and customized an Object Detection(Python, YOLOv3) model to detect faulty manufacturing, foreign materials and defects on unit product such as Intel Comet Lake, Intel Whisky Lake, ect... The final demo model exceeded the target Accuracy(80%) set by my mentor.

Education

Ho Chi Minh City University of Technology (HCMUT) **Aug 2017–Nov 2021**

Bachelor of Engineering: Electronic and Telecommunication; GPA: 7.29

Thesis project: Indoor Air Quality Monitoring system

- Fully designed and crafted IOT devices that embedded with ARM Cortex-M0 MCU. Those devices are solely for the attention of collecting PM2.5 fine dust and many other Volatile Organic Compounds(VOC) concentrations. The data is packed and sent to a web server (a Raspberry Pie) via MQTT protocol for analysis and visualization(achieved a grade of 89%).
- Github: https://github.com/zzhappyzebrazz/IndoorAirQuality-system

Technical skills

Programming languages	C/C++, Golang.
Cloud Native	Kubernetes, Docker, Helm chart, CI/CD with Gitlab.
Technical document	3GPP Technical Specification, RFC documents, Design and Guideline documentation.
Other	Git, Linux, OOP, Troubleshooting.

Languages

VietNamese	Native
English	IELTS Academic module overall band score: 7.5 (Test date: 22/6/2024) TOEIC Listening and Reading 950/990 (Test date: 06/12/2020)