QUYNH NGUYEN

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Bonn, Germany

IT EXPERIENCE

Ruby Backend Developer

Distribusion Technology

10/2016 - Ongoing Bonn, Germany

Working as part of a team that follows Agile software development processes and practices.

- Developed multiple application to integrate API of different bus companies (like National Express, Autostradale, Ouibus...) and kept them all in a good shape.
- Developed the Retailer API, providing the GDS content for buses from many places in Europe, and can handle high load at 2000 RPM. That API is currently used by many train/bus booking websites like Trainline, Rome2Rio, Mozio.
- Builded a web page to let user book bus tickets and this webpage now is accountable for 10% of all tickets selling via our Retailer API.

Internship - Data Analyst

Diabetes Lab

04/2015 - 08/2015 Trento, Italy

- Implemented algorithms to detect time period with physical activities (running, jogging, cycling).
- Predicted the dose of basal insulin needed for people with Diabetes Type 1.

Web Developer

East Agile

10/2012 - 07/2013 Ho Chi Minh City, Vietnam

- Created from scratch 3 internal web applications for our company to keep track of billable hours, manage leave-days and payroll.

TECHNOLOGIES

Unix **AWS** **Docker** **Git** **Ruby on Rails** **Varnish cache** **Neo4j**

SUMMARY

I am passionate about improving myself to be a programmer writing clean, maintainable applications that can handle high load. I continue learning good practices through books, courses and by spending free time coding, simply for the joy of solving problems.

PROJECTS

Computing centrality on real hardware: challenges and results

09/2015 - 03/2016 Trento, Italy

Implemented the Heuristic algorithm for calculating Betweenness Centrality. And tested the performance of that algorithm with the state-of-the-art one on the wireless router.

- Technologies: C++, OpenWrt (to port program to wireless router), Python
- Libraries: matplotlib, networkx, Standard Template Library C++, Boost Graph Library

Connectography

06/2016 - 08/2016 Trento, Italy

Calculate the radius of gyration of users based on call detail record (CDR) of TIM, to understand the pattern of movement. Due to the time constraint, I finished with the result of user movement pattern for the Trentino Alto-Adige region.

- Technologies: used Spark for running query on CDR records, used Python with some libraries seaborn, pandas, numpy to analyse the result from Spark.

LANGUAGES

Ruby, Python

Scala, C++, Bash

EDUCATION

M.S. in Computer Science

University of Trento

09/2013 - 03/2016 Trento, Italy

Erasmus+ exchange program

University of Edinburgh

09/2014 - 12/2014

B.S in Computer Science

University of Science

09/2007 - 10/2012 Ho Chi Minh City, Vietnam

COURSES

Functional Programming Principles in Scala

Functional Program Design in Scala

Machine Learning