Ladislav Vrbský

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EXPERIENCE

Web Developer – Back-End / Full Stack

Oct 2017 - Present

Vibe Desenvolvimento

[C#, ASP.NET, Java, SQL, JavaScript, SVN]

- Web applications for a local state bank Banpará Internet Banking apps and internal management systems
- o Implementing new projects/functionalities existing legacy systems in production and new systems
- Frequent use of web services
- Maintaining existing legacy systems
- o Tech support: Critical error / bug fixes and analysis, and related issues
- Building new web applications
- Usually working in small teams or individually
- Close collaboration with technical requirements team

${\bf Researcher-Applied~Computing},\,({\rm part\text{-}time})$

Jan 2016 – Present

[Matlab, LaTeX]

Operational Research Lab

- Researching communication QoS in Smart Grids using clustering techniques
- 1st publication compared clustering techniques for Base Stations deployment with respect to QoS
- Master's thesis: Clustering-driven equipment deployment planner and analyzer for wireless non-mobile networks applied to Smart Grid scenarios
- o Developed a model that optimizes deployment of Access Points and network Gateways
- Model usable by utility companies, available as open-source on my GitHub

Junior Software Developer

Apr 2013 - Aug 2014

AgentFly - Agent Technology Center

[Java, CVS, XML]

- $\circ~$ Large-scale multi-agent project, that models and simulates air traffic control
- Implemented collision avoidance algorithm for unmanned aerial vehicles (UAVs)
- Optimized generated alternative airplane routes
- o Developed communication skills by interacting and working closely with supervisor

PROJECTS

- Fraud detection in energy distr. network: Neural Networks, Decision Trees, Fuzzy Logic, Genetic Algorithm
- TensorFlow mini-projects: MNIST digit classification
- Memetic algorithm for Traveling Salesman Problem: Genetic Algorithm with local search
- JavaScript 2D web games: Platform Adventure (in team), Helicopter Attack, Asteroid Crush

PUBLICATIONS

• ICNSC 2017 (Intl. Conference): Clustering techniques for data network planning in Smart Grids

Determines deployment positions of Base Stations in a network

Compares performance of clustering algorithms in this application

• In progress (Peer Reviewed Journal): [name not yet defined]

Two-Level clustering - Optimal deployment study of network Access Points and Gateways Open-Sourced on my GitHub

Programming Skills

- Languages: Java 3yrs, C# 1yr, C/C++ 1yr, Matlab 3yrs, Python 1yr, JavaScript, SQL, HTML
- Techniques: Clustering, Neural Networks, Genetic Algorithms, Decision Trees, Graphs, Probability
- Interests: TensorFlow, SciKit-Learn, Natural Language Processing, Computer Vision, Reinforcement Learning, Problem Solving, Cyber Security

EDUCATION

Federal University of Pará (UFPA)

Belém, PA, Brazil

Master of Science in Electrical Engineering - Applied Computing - Artificial Intelligence

Aug 2015 – Mar 2018

Kansas State University (KSU)

Manhattan, KS, USA

Computer Science (MS and PhD level) courses – International Exchange

Aug 2014 – May 2015

Czech Technical University in Prague (CTU)

Prague, Czech Republic Aug 2011 – June 2014

Bachelor of Computer and Information Science

May-2018