Mukul Chand Yadav

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WORK EXPERIENCE

Dell Technologies Inc., *Round Rock, TX, USA*
Software Senior Engineer   *Mar. 2021 – Aug. 2022*
- Build scalable and highly-available microservice components for Dell's next generation Datacenter infrastructure manageability solution, OpenManage Enterprise - Modular using state of the art software tools
- Resolve customer issues on deployed solutions and co-ordinate with team of developers & L1/L2 customer support team to provide hotfix
- Add features and maintain scalable & highly-available instance of postgresql microservice of OpenManage Enterprise - Modular datacenter manageability solution

Wissen Technology, *Bengaluru , India*
Senior Software Engineer   *Sep. 2017 – Jul. 2018*
- Developed scalable data pipelines and concurrent execution engine using Java 8 functional pipeline and concurrency interfaces on SpringBoot runtime for internal federal CCAReport datasource feeds to analytics engine.
- Incorporated temporal database implementation to facilitate timestamped data updates

Samsung Research Institute-Bangalore, *Bengaluru , India*
Lead Engineer   *Sep. 2015 – Aug. 2017*
- Developed UI builder based data binding extension to SDK tools for Tizen ecosystem bundled as Tizen Studio for Tizen App development
- Prototyped web-IDE using node.js stack based Eclipse Orion umbrella architecture for web based IDEs

Hewlett Packard India Software Operations, *Bengaluru , India*
System Software Engineer   *Aug. 2012 – Sep. 2015*
- Developed extensions to HPE OneView datacenter management appliance base OS and component services such as networking, system upgrade, backup/restore and system settings using Spring infrastructure and field them as RESTful services
- Interacted and integrated with Linux clustering utility (DRBD & Pacemaker) to achieve clustering of node's RESTful services as well as standby highly-available
- Extended CGI endpoint and add python WSGI to provide fallback mode critical appliance services

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EDUCATION

University of Florida — Herbert Wertheim College of Engineering, *Gainesville, FL*
MS in Computer & Information Science Engineering   *Aug. 2018 – Dec. 2020*
GPA: 3.02 / 4.00

National Institute of Technology Durgapur, *Durgapur, India*
Bachelors of Technology in Information Technology   *Aug. 2008 – Apr. 2012*

PROJECTS

Blockchain Tech & Apps, *CIS 6930*
Blockchain DApps   *Aug. 2020 – Dec. 2020*
- Develop Solidity based smart contracts for crowdfunded AgroChain management system
- Build React framework based Finite State Machine enabled DApp to interact with blockchain

Machine Learning, *CAP 6610*
Machine learning algorithm implementations   *Jan. 2019 – Apr. 2019*
- Deploy ML algorithm solutions based on SVM, LDA
- Music genre classification using LSTM and CNN networks

Software Applications,
Distributed Operating System Principles, COP 5615 & Database System Implementation, COP 6726   *Aug. 2018 – Oct. 2019*
- *Elixir/Erlang OTP framework based highly concurrent lightweight actor-model architecture implementation of Gossip protocol, Chord P2P protocol and Bitcoin protocol*
- *Database engine and query optimization implementation using C/C++ toolkit*
- *Simple Server application using node.js framework to demonstrate C10K benchmark*

SKILLS : PROGRAMMING LANGUAGES AND TOOLS

Programming languages: Java, Python, C/C++, JavaScript, Shell Script, Elixir
Database: Postgresql, IBM DB2, MongoDB
Frameworks: SpringBoot, ETL, Hibernate, Erlang/OTP, Underscore, RequireJs, Web runtime Service workers, Flask, Django web framework, Jupyter notebook
Testing Frameworks: Junit, Selenium based testing tools
Build Tools: Maven, Gradle