

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
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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