

**VIBHU YADAV**

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**EDUCATION****MS, Computer Science, Dartmouth College, NH, US****2016****BS, Computer Science & Engineering, IP University, Delhi, India****2012**

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**WORK EXPERIENCE****Software Engineer, Verizon, FL, US****Apr 2018 - Present****- Chatbots**

- Developing use cases for Chatbots using Node and Python which are used by Verizon teams and making everyday work efficient.
- Using Artificial Intelligence engines for Actions and Intents on Google DialogFlow, IBM Watson and Kore.AI
- Working on backend framework which supports multiple chatbots.

**Software Engineer, RoboMQ, VA, US****Nov 2016 - Apr 2018****- Infrastructure as Code**

- Deployments and Maintenance on AWS and GCloud. Writing shell scripts to make the workflow easier.
- Docker, Docker Swarm, Docker Services and Kubernetes for container creation, deployments and orchestration.
- Sensu for Health Checks, Kong for API Management, Sonar for Code Quality, Jenkins for CI/CD and proxy rules in HAProxy and Nginx

**- FullStack Developments**

- Frontend development in Angular 4, Angular Material, HTML and CSS
- Backend Development in NodeJs using ExpressJS framework with database and sessions implementation using Redis and MySQL

**- Monolith to Microservice Developments**

- Writing Microservices using Java & breaking Monolith Systems into Microservice using brokers.

**Research and Thesis, Dartmouth College, NH, US****Jan 2015 - Mar 2016**

- Machine Learning techniques like K-means, GMM, PCA and LDA on patient and synthetic data.
- Most of the work was in Python and its libraries - Pandas, Numpy, Networkx, Database was Neo4j. Also used Matlab and Gephi.

**Software Engineer Intern, Silent Circle, MD, US****Jun 2015 - Sep 2015**

- Development and design of a VPN Android application for the security portfolio. Enhancement of API for the Data Utilization.
- Worked with the IoT R&D team implementing M2M secure messaging capability for enterprise deployments using C and C++.

**Software Engineer Intern, Cisco, CA, US****Jun 2014 - Sep 2014**

- Worked in the connected health-care division to develop a Medical Grade Network Analysis tool.
- Backend developed in Java. Infrastructure deployment in Cisco's Cloud (OpenStack).

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**PROJECTS****SleepGuard, Dartmouth**

Designed and developed an Android app which focused on providing sound sleep by detecting noises around & alerting individuals if they might be causing it. Used Google Cloud Messaging and Google Compute Engine by running Machine Learning Algorithms in the backend.

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**RELEVANT SKILLS**

**Languages** – Java, Python, JavaScript - Node, Android; **Databases** – Redis, SQL, MongoDB, Neo4j, **Middleware** – RabbitMQ, **Infrastructure** – Docker, Sensu, Sonar, Kong, Jenkins, AWS, Kubernetes, HAProxy, Nginx Proxy, Nmap; **Favourite Term & Shell** – iTerm2 & zsh shell, **Editors and IDE** – Atom, Vi, Webstorm, IntelliJ

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**COURSEWORK**

Algorithms, OOPS, Functional Programming, Android Programming, Wearable Programming, Networks, Wireless Networks, Low-Level Networks, Security, Databases, Computational Tools, Machine Learning