

Hemant Kumar

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Experience

Software Engineer - 08/2019 to Present

Altair, Bangalore, India

- Altair One (<https://www.altairone.com>) offers dynamic and scalable HPC on the public and private cloud
- Designed and implemented a secure and scalable infrastructure on Microsoft Azure cloud and on-premise to deliver HPC cluster
- Designed and created a fully automated Jenkins CI/CD build and deployment pipeline with GitLab
- Ensure reliability across all components of the platform: monitoring, logging, reporting, testing, high-availability, and scalability

Site Reliability Engineer - 07/2017 to 08/2019

WEYV, Bangalore, India

- WEYV (<https://www.veyv.com>) is a commercial music streaming service platform that allows users to listen to music and read magazines
- Designed and maintained AWS infrastructure creation using Ansible
- Architected a highly scalable and reliable infrastructure on AWS
- Build helm charts to package and deploy applications on kubernetes
- Designed CI/CD Jenkins pipelines to increase deployments and delivery frequency

Project Internee - 08/2016 to 04/2017

Indian Institute of Technology, Guwahati, Assam, India

- Speech quality communicated over the existing public switched telephone network (300-3400 Hz) does not have sufficient naturalness because of the lost information in the higher frequency region
- ABE attempts to improve the quality and intelligibility of narrow-band speech by restoring its high-frequency component
- Regenerated the lost high-frequency part using deep neural networks (DNN) and analyzed its performance, word error rate (WER) in the automatic speech recognition (ASR) system

Research Assistant - 05/2016 to 07/2016

LTL, Aalto University, Helsinki, Finland

- Designed micro-meter sized field-effect transistor (FET) on AutoCAD
- Fabricated graphene FET on silicon dioxide involving exfoliation of graphene, identification using Raman spectroscopy, e-beam Lithography, metallization, and lift-off
- Measured the universal conductance fluctuations in dilution refrigerator in presence of magnetic field up to 20 mT at low temperatures

Summary

- 4 years of experience in the field of site reliability engineering
- Experience in large scale enterprise infrastructure architecture on Cloud (AWS/Azure) Docker and Kubernetes
- Continuous integration/delivery, build, release, and deployments in a multi-cloud environment
- Writing highly scalable, reusable, and reliable software

Skills

- Azure, AWS
- UltraDNS, Azure DNS, Amazon Route 53
- IaC, SaltStack, Ansible, Terraform
- Helm Charts, Kapitan, Release Engineering
- Docker, Kubernetes, AKS
- Nginx, Ingress, Ingress Controllers
- Jenkins Pipeline/DSL/Libraries, Groovy
- HTTPS, SSL, Let's Encrypt, cert-manager
- GitHub, GitLab, GitLab – CI/CD/Runner
- Datadog, Honeycomb
- Active Directory, Samba
- Python, PowerShell, Bash, MATLAB
- Machine Learning, Statistics, Probability

Education

- 2013 – 2017, Electronics and Communications Engineering, Indian Institute of Technology, Guwahati, Assam, India, 6.05/10
- 2011–2012, Senior secondary high school, Kendriya Vidyalaya, Fort William, Kolkata, India, 85.6%
- 2009-2010, Secondary high school, Kendriya Vidyalaya, Fort William, Kolkata, India, 8.8/10

Miscellaneous

- Qualified for IIT-JEE 2013- Top 0.5% out of 0.4 million people who wrote the exam