

Anshuman Biswas

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About

Anshuman is a Sr. Engineering Manager at IBM. Having worked in Cloud Computing technologies for over a decade, Anshuman relishes the challenges involved with designing distributed systems. He is proficient at solving hard problems and finds it gratifying to design dev-ops driven simple, elegant and efficient solutions for complex systems. In addition to managing resources in a cloud environment, Anshuman enjoys applying economic constraints to maximize performance while managing costs. He likes to automate the menial parts of his developer life by automating anything repetitive.

Experience

SR. ENGINEERING MANAGER | IBM | SEP 2021 – PRESENT | TORONTO, CA

- Leading a team of developers building Orchestration products for Turbonomic.

SR. ENGINEERING MANAGER | TURBONOMIC | JUL 2017 – SEP 2021 | TORONTO, CA

- Developing highly performant code that runs inside a customer data-center and monitors application performance
- Developing with **Java** and **Kubernetes** on a large software codebase that manages cloud and on-prem workloads
- Built an automated developer workspace to spin up VMs in local datacenter with **Terraform** and **Ansible**
- Built an integration test framework by extending the **Robot** framework to enable component level testing
- Evangelize and continuously improve software development practices
- Anticipate bottlenecks, make tradeoffs, prioritize tasks and meet deliverables while maintaining technical standards
- Drive integrations with third-party systems such as **ServiceNow** and building a performant communication protocol

SOFTWARE DEVELOPER | TREND MICRO | JUL 2016 – JUL 2017 | OTTAWA, CA

- Backend Server management, performance tuning of Application Server and DB Server
- Build and test dev-ops pipelines for continuous integration and deployment using **agile methodology**
- **Java** for primary development. Manage a distributed application deployed on **AWS**
- Develop based on a **Micro-service** architecture and deploy using containerized mechanisms
- **Ansible**, **Chef** and **Jenkins** for maintaining a continuous integration and delivery pipeline

RESEARCH ASSISTANT | CARLETON UNIVERSITY | JAN 2012 – JUN 2016 | OTTAWA, CA

- Extensive use of **OpenStack** and **VMWare's vCloud Director** for testing resource scaling
- **RESTful**, **SOAP Web Services** API Integration with **JAVA** for **OpenStack** and **AWS (EC2 and S3)**
- Use of **Python** and **Weka** for predicting data based on different machine learning algorithms

SOFTWARE DEVELOPER | RPSMARF | DEC 2014 – JUN 2016 | OTTAWA, CA

- RPSMARF (<https://www.rpsmarf.ca/>) is a collaborative cloud web application to share analytics tools and data
- Responsible for moving IOT data from onsite to the Cloud to analyze using domain-specific tools
- Service Discovery using **SPARQL**. Making non-CLI tools available using an integrated remote desktop using **Guacamole**
- Responsible for deploying and monitoring resources on an OpenStack cluster provided by CANARIE
- Built an extensive platform with **Graphite**, **Carbon**, **Statd** and **Collectd** for monitoring infrastructure
- Frontend development using **AngularJS** and backend development using a **Python –Django** stack

CHIEF TECHNOLOGY OFFICER | NEAREST INC. | JUL 2012 – DEC 2014 | OTTAWA, CA

- Nearest (<https://www.nearest.com>) is a hyper-local search engine to help local businesses target nearby consumers
- Built a real-time framework for commutation and search with PHP and Web-Sockets. Also Used *Meteor.js*, *Web-Sockets* and *WebRTC*
- Application deployed on a cloud environment with 'proactive' auto-scaling
- Used *Amazon Web Services (EC2 + RDS)* for production and an *Open Stack Cluster* for development
- Dev-ops oriented deployment with *Vagrant*, *Puppet* and *Chef* to ensure consistency. *Jenkins* for integration management
- Managed a team of 8 to meet weekly project deadlines

SYSTEMS ENGINEER | TATA CONSULTANCY SERVICES LTD. (TCS) | SEP 2009 – JAN 2012 | BENGALURU, IN

- Worked with different **data warehousing** solutions with SAP. Responsible for creating data models and reports
- Migrated locally deployed applications to the Cloud to leverage benefits of Cloud Computing at its infancy (2009)
- Worked in **SAP's ABAP** to manage *DataSources* and provide enhanced features to the Business Warehousing solution
- Delivered professional services to external Customers, from the initial detailed Solution Design, through to Implementation and Customer Acceptance customization, including proof of concepts, Stand-Alone and Inter-Operability Testing, Customer training and on-site support

DEVELOPER | GLOBAL TRAVEL SOLUTIONS | AUG 2009 – SEP 2009 | MUMBAI, IN

- Worked in the aviation industry to build an integrated travel portal using Google Web Toolkit

INTERN | 2PIRAD | SEP 2007 – APR 2008 | KOLKATA, IN

- Built a rudimentary data communication channel using an optical device and a rudimentary OSI layer

Education

PH.D. | ELECTRICAL AND COMPUTER ENGINEERING | 2019 | CARLETON UNIVERSITY

M.SC. | COMPUTER SCIENCE | 2009 | CALCUTTA UNIVERSITY, INDIA

B. SC. | COMPUTER SCIENCE | 2007 | CALCUTTA UNIVERSITY, INDIA

Skills

- **Languages** - Java Python C PHP JavaScript
- **UX** - Angular
- **Databases** - MySQL Postgres Oracle MongoDB SQL Server Redis
- **Data Streaming** Spark Storm Kafka RabbitMQ
- **Frameworks/APIs/Libraries** – Spring Robot Node.js Meteor.js jQuery Django Laravel
- **Cloud Providers** –Amazon-AWS Azure Digital Ocean Rackspace OpenStack vCloud
- **Hypervisors** – XEN KVM/QEMU ESXi
- **BUILD/CI** – Maven Gradle Jenkins
- **Servers** – Apache Nginx Tomcat
- **Search** – Sphinx ElasticSearch (ELK)
- **Dev-Ops** – Vagrant Chef Ansible Terraform
- **Version Control** – GIT SVN