

# Toran Sahu

## Senior Software Developer at Ethereal Machines

B. Tech. (CSE) NIT, Raipur

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## EXPERIENCE

### Ethereal Machines, Bangalore — Senior Software Developer

MAR 2018 – PRESENT

Enhanced 3d printer richness by adding smart features. Designed, architect & established internal ERP system & CMS enabled website for the company.

### Infosys Tech. Ltd., Pune — Senior Systems Engineer

JUL 2017 – MAR 2018

Reduced INTERSPEC to SELERANT data migration activity turnaround time by automating tasks through PL/SQL procedures.

### Infosys Tech. Ltd., Pune — Systems Engineer

JUN 2015 – JUN 2017

Enriched user-experience by enhancing the existing features of the application. Optimized PL/SQL procedures, automated some data migration activities.

## EDUCATION

### National Institute of Technology, Raipur — B. Tech. (CSE)

JUN 2011 – JUN 2015

Grade: 6.96/10

### Jawahar Navodaya Vidyalaya, Bilaspur — 12th PCM

JUL 2009 – APR 2010

Grade: 72%

### Jawahar Navodaya Vidyalaya, Bilaspur — 10th

JUL 2007 – APR 2008

Grade: 83.4%

## PROFESSIONAL PROJECTS

### Ethereal ERP, Enterprise Resource Planning — Ethereal Machines

JUN 2018 – PRESENT @ Ethereal Machines

Establishment of ERP System for the organization which includes PLM, Inventory, Finance Management, Vendor & Distributor Management System.

- Activities: Software Backend Development, Writing REST APIs, Cloud Platform management
- Responsibility: Requirement Gathering, Analysis, Design, Development, Testing, Team Management
- Technologies: Python, Django, MySQL and AWS

### Ethereal Halo, 5-Axis CNC Router & 3D Printer — Ethereal Machines

MAY 2018 – JUN 2018 @ Ethereal Machines

Improvement in accuracy of heating and extrusion mechanism, and Creation of G-Code Postprocessor.

- Activities: Software Backend Development, Improving & Fixing code bases using Mathematical Solutions
- Responsibility: Requirement Gathering, Analysis, Development, Testing
- Technologies: C/C++, Python

### Ethereal Website, CMS Enabled Official Website — Ethereal Machines

APR 2018 @ Ethereal Machines

Development of Company's Official Website facilitating Content Management System to the Administrators.

- Activities: Software Backend Development, Writing REST APIs, Cloud Platform management
- Responsibility: Requirement Gathering, Analysis, Design, Development, Testing, Team Management
- Technologies: Python, Django, MySQL and AWS

## SKILLS

### Programming Languages

- Python
- Java
- C/C++
- C#

### Database Technologies

- Oracle – PL/SQL
- MS Server – T-SQL
- MySQL
- SQL
- ORM

### Web Technologies

- REST APIs
- MVC
- JavaScript
- HTML
- CSS

### Frameworks

- Django
- Flask
- Pytest
- Pandas
- Scikit-Learn

### Version Control System

- Git

### Cloud & DevOps

- AWS
- Continuous Integration

### Operating System

- Linux (Ubuntu/Mint)
- Raspbian (Raspberry Pi)
- Windows

### CS Fundamentals

- Data Structures
- Algorithm
- DBMS
- Operating System
- Networking

### Other

- 3D Printer
- Data Mining
- PLM Tools

## AWARDS

### Insta Award – Infosys – Mar 2017

Certification awarded in appreciation of exceeding the client's expectations for the works assigned.

## Ethereal Ray, 3D Printer Backend — *Ethereal Machines*

MAR 2018 – APR 2018 @ Ethereal Machines

Establishment of open source 3D printer software backend on raspberry platform, Improving and adding various feature to make the printer smarter.

- Activities: Software Backend Development, Platform Development, Writing REST APIs, Open Source Contribution
- Responsibility: Requirement Gathering, Analysis, Design, Development, Testing, Team Management
- Technologies: Python, Flask
- Repository: <https://github.com/Ethereal-Machines/Ray>

## ProConf, Meridian Data Migration — *Mondelez International*

JUN 2017 – OCT 2017 @ Infosys Tech. Ltd.

Migration of some plants related data from SIMANTIC IT Interspec's database to Selerant DevEX PLM's database.

- Activities: Extraction, Transformation, and Migration followed by Retirement
- Responsibility: Requirement gathering, analysis, design, development (ETL), testing, client communication, team management
- Technologies: PL/SQL, Java and C#

## Volt — *Mondelez International*

SEP 2016 – MAY 2017 @ Infosys Tech. Ltd.

Enhancement in existing features by implementing change request

- Activities: Major & minor change request development
- Responsibility: Development, testing, client communication
- Technologies: Python, Django, PL/SQL

## Meridian Retirement — *Kraft Foods*

DEC 2015 – AUG 2016

Migration of the whole data from Meridian's database to Oracle Agile PLM's database.

- Activities: Extraction, Transformation, and Migration followed by Retirement
- Responsibility: PL/SQL and console application programming
- Technologies: PL/SQL, Java and C#

## PERSONAL PROJECTS

### Met-Office

OCT 2017

Weather Facts & Feature Visualization of various regions using data from metoffice.org.uk

- Activities: Data Extraction (Automated), Cleaning, Transformation, and Data Projection
- Responsibility: Full Stack Development
- Technologies: Python 3.6, Django 1.9, Django ORM, sqlite3 DB, JavaScript
- Repository: <https://github.com/toransahu/metoffice>

## ACADEMIC PROJECTS

### MS Excel Implementation of Regression Clustering — *NIT, Raipur*

JAN 2015 – APR 2015

An Application Software for attribute prediction of the data present in Excel file with minimal error estimation using regression clustering.

- Algorithm: Clustering (K-Means), Regression
- Technologies: Python3, MySQL, Scikit-Learn, XlsxWriter, Data Mining, Machine Learning
- Repository: <https://github.com/toransahu/regression-clustering>

### Data Fragmentation for given Cluster Centers — *NIT, Raipur*

JUL 2014 – DEC 2014

An Application Software for fragmentation of the data present in Excel file according to given cluster centers.

- Algorithm: K-Means
- Technologies: Java2, MySQL

## Insta Award – Infosys – Jul 2016

Certification awarded in appreciation of quickly learning INTERSPEC tool, helping the team to build database queries & extraction process, hard-working, and dedicated nature.

## LANGUAGE

English, Hindi