Toran Sahu

Senior Software Engineer at Ethereal Machines

B. Tech. (CSE) NIT, Raipur

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EXPERIENCE

Ethereal Machines, Bangalore — *Senior Software Engineer*

MAR 2018 – PRESENT

- Enriched overall user experience by implementing smart features in the 3D printer & 5-axis Hybrid CNC machine
- Strategized and implemented Licensing of the 5-axis Hybrid CNC machine
- Designed, architect, & established an internal ERP system & CMS enabled website for the company
- Actively involved in the recruitment process

Infosys, 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, Pune — *Systems Engineer*

JUN 2015 – JUN 2017

- Enriched user-experience by enhancing the exinsisting features of the application using Python
- 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 Postprocessors.

SKILLS

Programming Languages

- Python
- Java
- C/C+
- C#
- Shell Scripts

Database Technologies

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

Web Technologies

- REST APIs
- MVC
- JavaScript
- HTML
- CSS

Frameworks

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

Version Control System

- Git

Cloud & DevOps

- AWS
- Heroku
- Continuous Integration (CI)

Operating System

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

CS Fundamentals

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

Other

- 3D Printer
- Blockchain
- Data Mining
- PLM Tools

- Activities: Software Backend Development, Improving & Fixing code bases using Mathematical Solutions, Product Licensing strategies & implementation
- Responsibility: Requirement Gathering, Analysis, Design, 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

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/toransahu/Ray

ProConf, Interspec 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, Team Management
- Technologies: PL/SQL, Java and C#

Volt, Financial Performance Management — *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, Interspec Data Migration — *Kraft Foods*

DEC 2015 – AUG 2016 @ Infosys Tech. Ltd.

Migration of the whole data from SIMANTIC IT Interspec'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

Blockchain based Data Exchange Framework

Jul 2018 – PRESENT

Blockchain-based Data Exchange Framework to ensure the security, robustness, and the immutability of the inter-department transactions with some additional features like trigger based automatic data exchange.

- Activities: Software Backend Development, Writing REST APIs, Cloud Platform Management
- Responsibility: Requirement Gathering, Analysis, Design, Development, Testing
- Technologies: Multichain, Python, Django, MySQL, and AWS
- Repository: https://github.com/toransahu/blockchain-def

AWARDS

Insta Award – *Infosys*

MAR 2017

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

Insta Award – *Infosys*

JUL 2016

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

LANGUAGES

English, Hindi

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