

ALBIN THOMAS

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SUMMARY Highly trainable Microsoft Certified Database Developer (MTA) & Programmer with 4 years of experience in data analysis and software development

EXPERIENCE Saint Gobain Ceramics & Plastics Buckhannon, WV
Process & Development Engineer August 2015

- Developed a CRUD software application in asp.net and C# and MS-SQL server as the backend to replace existing excel based property database –(Hosted on SG servers).
- Experienced in software debugging of production floor management, inventory management and raw material management systems. Also, developed various subroutines using C# and MS-SQL.
- Developed human machine interface (HMI) for various temperature and humidity monitoring sensors.
- Developed data model, stored procedures, functions, packages, SSI, SQL Scripts and schemas.
- Integrated the above applications with Saint Gobain Central Authentication System (CAS).

Missouri S&T – Intelligent Systems Center Rolla, MO
Student Technical Assistant / Graduate Research Assistant January 2014

- Designed two highly secure websites and databases (MS-SQL) for research centers that hold confidential business correspondence documents, research prospects and results.
- Developed and maintained university research websites using Terminal 4 content management system.
- Used BMC IT management suite for managing user service tickets.
- Managed the transfer of database and website from third party hosting to University server.

PROJECTS

- **Note-Making app – Notifying (Google PlayStore)**
Developed & published an android note-making app in Google PlayStore.
- **Data analysis using SAS and Python**
Did cluster analysis on production data to identify products, machines and departments that needs focus.
- **Real-Time tracking of Chicago Bus Transportation System (Written in C# using asp.net)**
Developed the code to track buses in real time using Public API from the Chicago Bus Transportation system. Analysis like “finding the speeding bus driver” could be done from this code.
- **Face and eye detection using python openCV**
Used Haar cascade classifier to develop face and eye detection under low light setting video feeds.
- **Home Automation Using Raspberry Pi-3 + Arduino**
Various home devices/appliances were connected to Arduino and controlled using Raspberry Pi that could be accessed via a web dashboard. SMS notification was also implemented using Twilio API.
- **Anonymous Browsing – Tor Network + Raspberry Pi**
A pre-built on-board wifi using the latest Raspberry Pi-3, was programmed to connect to the Tor network to route traffic anonymously.
- **Network Analysis using wireshark**
Did packet analysis on an industrial network (as part of internship at CTTC, India)
- **Developed a web crawler in Python**
Developed a fully functional code for a web crawler to crawl through webpages, indexes, hyperlinks and images.

INTERNSHIP

Thought Labs, Socialchamps - India

Digital Marketing Executive

June 2011

- Successfully developed digital marketing strategies for clients from education, health and sports industry.
- Achieved 50000+ downloads for TripLog App, after 2 months of online marketing.
- Managed team of 5 executives, maintained HR information through Orange HRM and marketed through Hootsuite applications.

Mechanical Design Intern, Central Institute of Tool Design, India

Summer 2012

- Designed chassis of Mini-Baja [In Solidworks] as per regulations of SAE-India and performed crash analysis in LS-DYNA
- Trained in CNC programming and machine control

Design and Manufacturing Intern, Central Tool Room & Training Center, India

Summer 2011

- Designed [In PTC Creo] and manufactured a hand injection mold to make plastic key chains considering poka yoke principles and tight tolerances as the key points in thirty days
- Trained in Geometric Dimensioning, Tolerance control and ISO standards(ISO-14001, ISO-9001)

CERTIFICATION

Microsoft Technology Associate: Database Fundamentals

May 2016

- License Certification ID: 12682044

OSHA General Industry Safety and Health

August 2015

- Certification Number: 15-701731477

Programmable Logic Controllers

January 2015

- Certification Agency: Missouri University of Science & Technology

EDUCATION

Missouri University of Science and Technology, Rolla, MO

July 2015

M.S. in Mechanical Engineering

GPA 4.00/4.00

Guru Ghasidas Vishwavidyalaya, India

May 2013

B.Tech. in Mechanical Engineering –Completed with Honors

GPA 4.00/4.00

SOFTWARE

- **Programming Languages** – Python, Java and C#
- **Web Development** – HTML5, CC3, Javascript, Node.js
- **Database** – MS-SQL, ORACLE SQL DB, MangoDB (currently learning)
- **Business Intelligence** – Si-Sense
- **Visualization** – Informatica, Tableau
- **Networking** – Wireshark, Checkpoint (basics)
- **Data Analysis** – R, SAS, Minitab
- **OS** – Windows, Linux, Raspbian, Unix