Nicholas White

Software Craftsman

Personal Info

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WWW

nickwhite.io

Social media

LinkedIn

www.linkedin.com/nickwhitecleveland

Skills

Database Systems

Data modeling, relational and non-relational schema design, operations and data quality

Communications

Public speaking, presentations, pitches, technical and non-technical communications & writing

Data Architecture

Building data pipelines, highly available data systems, analytics grade performance

SQL-Based Technologies

ORMs, ETL design, client-server applications, database development

Big Data Analytics

Apache Hive, HBASE, Spark, Sqoop, R, SparkR, MapReduce

Application Development

Web front-end (Angular 2, jQuery) & back-end (ASP.NET, Python, NodeJs)

Cloud Architecture and Applications

Microsoft Azure, Amazon AWS, IBM BlueMix, performant SaaS applications

Data Warehousing

Schema design, ETL workflows, performance enhancements and monitoring

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Highly interested in a position which offers the possibility of advancement, and will utilize existing knowledge of software design and development, database systems, and computer engineering. Highly motivated, personable, business minded individual with experience and a track record of employment with various companies in the Cleveland area. Diplomatic and tactful with professionals and non-professionals at all levels. Able to maintain a sense of humor under pressure. Poised and competent with demonstrated ability to easily transcend cultural differences. Works best and thrives within a team or group environment. Focused and detail-oriented, offers exceptional troubleshooting skills and a talent for developing innovative solutions to unusual and difficult problems. Highly dependable and enthusiastic team player dedicated to streamlining processes and efficiently resolving project issues.

Experience

Dec 2016 - present

Data Engineer

Parker Hannifin

Big Data and Hadoop

Architects, develops, and manages Parker's Big Data & distributed computing infrastructure.

Develops and owns the collecting, storing, processing, and analyzing large sets of data.

Responsible for integrating new and existing Big Data solutions with applications used across the corporation.

Technologies and Responsibilities

Proficient understanding of distributed computing principles.

Management of Hadoop cluster, along with all open source Hadoop applications and services.

Ability to troubleshoot and maintain a healthy Hadoop cluster.

Proficient with Hadoop's core processing and storage technologies (MapReduce and HDFS).

Experience with building in-stream processing systems, using solutions such as Kafka, Storm, or Spark-Streaming.

Advanced knowledge of Big Data query tools, such as Hive and Impala.

Experience with Apache Spark.

May 2016 - Dec 2016

Trainee - Data and Business Intelligence

Parker Hannifin

Enterprise Data Warehousing

Developed data pipelines for ETL into an enterprise data warehouse.

Architected and implemented relational schemas for Parker's enterprise data warehouse.

Big Data and Hadoop

Developed Parker's first and only Hadoop ecosystem.

REST APIs and Innovation

Designed, developed, and maintained Parker's first REST APIs in the Business Intelligence space.

Worked to improve legacy mainframe processes, increasing agility both within the team and the corporation's IT function.

Aug 2015 - May 2016

Intern - Data and Business Intelligence

Parker Hannifin

OBI (Oracle Business Intelligence Software)

Developed data pipelines to feed warehouse tables for consumption by enterprise reporting tools.

Big Data Systems

Open Source Hadoop, distributed computing architectures, cloud and on-premise big data platforms

Data Mining and Machine Learning

R, RStudio Server, Python, Data Wrangler, Mahout

Software

Linux Distributions

RedHat Enterprise Linux, Ubuntu, OpenSUSE

Developer Tools

Git, Jenkins, Chef, Slack, etc..

Hadoop and Big Data Platforms

Cloudera Open Source Hadoop, Hortonworks Data Platform, Apache Hadoop, AWS EMR, Azure Data Lake

Database Management Systems

Microsoft SQL Server, DB2, PostgreSQL, MySQL

Analytics & Data Mining Tools

Tableau, PowerBI, Spotfire, OBI

Enterprise Data Warehousing

Developed efficient extracts from source ERP systems.

Applied data transformation and modification to source data for data warehouse consumption.

Developed processes to load the data warehouse from source ERP system extracts.

Designed advanced data validation and testing tools and processes.

Designed and implemented ETL against Mainframe DB2 infrastructure.

IBM Mainframe Systems Development (minor development)

COBOL code modification and maintenance (no new development).

JCL modification and maintenance (no new development).

Jan 2015 - Aug 2015
Intern - Manufacturing Systems Development
Parker Hannifin

Maintained and updated existing ASP.NET web applications across the corporation.

Frequently executed the design, development, and implementation of SQL Server database projects.

Created Microsoft PowerShell tools for automation of legacy processes.

2012 - present
Freelance Web Application Developer
Self Employed

Frontend Development

Developed web applications using HTML5, CSS3, Angular.js, and other SPA MVC frameworks.

Backend Development

Used .NET, Node.js, and Python to develop REST APIs, and MVC applications for clients.

Cloud Infrastructure Development and Operations

Developed solutions on MS Azure, DigitalOcean, and Amazon Web Services

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Education

Aug 2017 - present
Cleveland State University, Master's Degree, Computer Science - Database Systems
Courses (Beginning Spring 2017)

Core Courses

CIS 601 Graduate Seminar in Computer Science

CIS 606 Analysis of Algorithms

CIS 620 Advanced Operating Systems

CIS 600 Advanced Computer Architecture

CIS 524 Programming Languages

Electives

EEC 521 Software Engineering

EEC 522 Software Systems Modeling and Analysis

EEC 584 Computer Networks

CIS 611 Relational Database Systems

CIS 612 Advanced Topics In Database Systems

CIS 630 Enterprise Application Development

CIS 631 Distributed Object Systems

CIS 660 Data Mining (cross-listed as EEC 525)

CIS 666 Artificial Intelligence

CIS 675 Information Security

EEC 625 Software Design and Architecture

EEC 680 High-Performance Computer Architecture

EEC 681 Distributed Computing Systems

2012 - 2016   **Cleveland State University, Bachelor's Degree, Electrical Engineering and Computer Science (Formerly Computer Engineering)**

Core Courses

Computer Organization

Hardware-Software Co-Design

Electric Circuits I & II

Digital Systems & Lab

Physics I & II

Differential Equations

Matrices for Engineers

Honors Calculus I & II

Discrete Mathematics

Electives

Advanced Digital Systems & Lab

Electronics I

Electronics Lab

Computer Networks

Writing & Non-Technical Courses

Technical Writing

Engineering Ethics

Engineering Economy

Engineering Stats/Probability

Writing in Elec. & Comp. Engineering

2012 - 2016   **Cleveland State University, Minor Degree, Computer Science**

Intro to Programming

Data Structures & Algorithms

Systems Programming

Operating Systems

Database Concepts

Software Engineering

Additional Activities

May 2016   **First Place - Washkewicz College of Engineering Senior Design**

Cerebro uses an innovative human detection and recognition algorithm to detect humans in the video streams of cameras within a specified area. As a crime is committed, the suspect is tagged in the system and tracked from camera to camera as they attempt to flee. This information is then reported to police in real time. https://www.csuohio.edu/engineering/multidisciplinary-cerebro-project-takes-first-place-senior-design-symposium

2012 - 2016   **Choose Ohio First Mathematics Scholarship (National Science Foundation)**

Received the Choose Ohio First Mathematics Scholarship for four consecutive years of undergraduate study. The program requires attendance of frequent cohort meetings, as well as a research presentation.

Presentation Topics:

Year 1: Time Complexities in Object Oriented Programming Languages: A Comparison of Modern OOPLs

Year 2: Distributed Tracking and Profiling Networks: Man in the Middle Attacks Using

a Raspberri Pi

Year 3: 3D Printing and the Future of Consumer Products

Year 4: Cerebro Campus Security: Built on a Distributed Cloud Architecture, Powered by Computer Vision Neural Network Machine Learning Algorithms

2012 - 2016

Cleveland State University Scholars Award and Scholarship

Was admitted into the University Scholars program, and maintained good academic standing with the college for four consecutive years. Graduating as a University Scholar.

2012 - 2016

Parker Hannifin Engineering Endowment

Received the Parker Hannifin Engineering Endowment for four consecutive years of undergraduate study.

2013 - 2016

IEEE Cleveland State - Technical Administrator, Web Developer

Volunteer for Cleveland State University VEX Robotics Competition (2014)

3rd Place in Physics Competition (Kit) (IEEE Region 2 SAC 2013)

Web Developer and Volunteer (IEEE Region 2 SAC 2016)

More: http://ieeeecsu.org

2015 - present

Ohio Wildlife Rehabilitators Association

Member, Intro to Wildlife Rehabilitation Course Attendee

OWRA provides training, networking and referral information to wildlife rehabilitators so they can better assist the public when injured, orphaned, or diseased wildlife are encountered.

More: http://www.owra.org/

Additional Coursework

Coursera - Database Mangement

Coursera - Data Warehouse Concepts, Design, and Data Integration

Coursera - Relational Database Support for Data Warehouses

Coursera - Business Intelligence Concepts, Tools, and Applications

Many more (100+) available upon request.

References

Dr. Sunnie Sun Chung, College Lecturer, Department of Electrical Engineering and Computer Science, Cleveland State University

https://www.csuohio.edu/engineering/eecs/sunnie-s-chung-college-lecturer

Dr. Chansu Yu, Professor and Chairman, Department of Electrical and Computer Engineering, Cleveland State University

http://academic.csuohio.edu/yuc/

Dr. Pong Chu, Associate Professor, Department of Electrical Engineering and Computer Science, Cleveland State University

http://academic.csuohio.edu/chu_p/

Dr. Wenbing Zhao, Professor, Department of Electrical Engineering and Computer Science, Cleveland State

http://academic.csuohio.edu/zhao_w/

Dr. Yongjian Fu , Associate Professor, Department of Electrical