Nicholas White

Software Craftsman

Personal Information

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Skills

Database Systems

Data modeling, relational and nonrelational system design, development, and operations

Communications

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

Data Architecture

Data pipeline development, building highly available database systems

SQL-Based Technologies

ETL design & development, client-server applications, backend data modeling and implementation

Big Data Analytics

Apache Hive, HBASE, Spark, Sqoop, R, SparkR, MapReduce (Python)

Application Development

Web front-end (Angular, jQuery) & backend (NodeJs & C#)

Cloud Architecture and Applications

Microsoft Azure, AWS, & IBM BlueMix

Experience

Dec 2016 - present

Data Engineer

Achievements in Data Architecture

Parker Hannifin Corporation

Architected, developed, and implemented Parker's first and only Big Data ecosystem.

Developed and owned the collecting, storing, processing, and analyzing of large sets of

data.

Continuously delivered value by integrating new and existing Big Data solutions with applications.

Enabled valuable self-service analytics by deploying analytical query tools such as Hive and Impala.

Trained Parker's data scientists on how to work with big data for analytics.

Utilized Apache Spark to deliver unheard of analytics value to the corporation.

May 2016 -

Data Warehouse Developer - Trainee

Dec 2016

Parker Hannifin Corporation

Achievements in Data Warehouse Development

Developed data pipelines for ETL into an enterprise data warehouse.

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

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

Intelligence space.

Improved legacy mainframe processes, increasing agility within the corporation's IT & business functions.

Aug 2015 -

Data and Business Intelligence Dev. - Intern

May 2016

Parker Hannifin Corporation

Achievements in Data Warehousing

Developed efficient extracts from source ERP systems, applied data transformation and processes to load the data warehouse.

processes to load

Jan 2015 -Aug 2015

Legacy Software Systems Developer - Intern

Parker Hannifin Corporation

Achievements in Team Efficiency and Operations

Increased team development operations performance by a factor of three.

Built continuous delivery process for legacy processes, increasing performance.

Education

2017 -

Computer Science - Master's Degree (In progress)

present

Cleveland State University

Cleveland State University

Database systems; Distributed computing systems;

2012 -

Computer Engineering - Bachelor's Degree

2016

2016

Digital systems; Electronics; Hardware-software co-design;

Computer Science - Minor Degree

Cleveland State University

Software engineering; Database systems;

Side Projects & Entrepreneur Endeavors

and tracking across multiple cameras.

2016 Safekey: *IoT device for real-time distress signals.* SaaS + hardware solution.

Cerebro: University campus computer vision system for human detection

2016 CortexAI: Operationalized machine learning models.

2017 **DbUnit:** *Unit testing suite for your database.*

Data Warehousing

Schema design, ETL workflows, performance enhancements and monitoring

Big Data Systems

Open Source Hadoop, distributed computing architectures, cloud and onpremise big data platforms

Data Mining and Machine Learning (Learning)

R, RStudio Server, Python, Data Wrangler

2017

DbGen: Database DDL generator. Taking the monotony out of schema and ORM implementation.

Achievements

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.

2012 -2016

Choose Ohio First Mathematics Scholarship (National Science Foundation)

Received the Choose Ohio First Mathematics Scholarship for four consecutive years.

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

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

Year 4: Cerebro Campus Security: Powered by Computer Vision Neural Network Machine Learning Algorithms

2012 -

Cleveland State University Scholars Award and Scholarship

2016

Graduate University Scholars program; Maintained good academic standing for four consecutive years.

2012 -

Parker Hannifin Engineering Endowment

2016

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)

References & Recommendations

Dr. Sunnie Sun Chung - Cleveland State University

College Lecturer, Department of Electrical Engineering and Computer Science https://www.csuohio.edu/engineering/eecs/sunnie-s-chung-college-lecturer

Dr. Chansu Yu - Cleveland State University

Professor and Chairman, Department of Electrical and Computer Engineering http://academic.csuohio.edu/yuc/

Dr. Pong Chu - Cleveland State University

Associate Professor, Department of Electrical Engineering and Computer Science http://academic.csuohio.edu/chu_p/

Dr. Wenbing Zhao - Cleveland State University

Professor, Department of Electrical Engineering and Computer Science http://academic.csuohio.edu/zhao_w/

Dr. Yongjian Fu - Cleveland State University

Associate Professor, Department of Electrical Engineering and Computer Science http://academic.csuohio.edu/fuy/