

JORDAN ELLIS BECHEK

Software Developer

I am, always have been, and always will be a problem solver and tinkerer, inquisitive in nature and imaginative at heart. I have been programming for thirteen years and am skilled in web development, database design, and mobile platform development.

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EMPLOYMENT

Oracle Database Developer

May 2019 to Present

Peraton / Northrop Grumman (IT business unit acquired by Peraton in January 2021)

Responsibilities

- Provide support for and optimize the performance of production and QA Oracle 19c databases, which facilitate tens of thousands of EDI transactions per day
- Maintain robust ETL structures employing queues, interface tables, and buffer schemas to pull in data, transform it into a digestible state, interrogate it using a set of business rules, and incorporate it into a comprehensive ERP system
- Investigate, debug, and resolve critical production-level issues using PL/SQL to identify errors and develop solutions, including modifying or creating new packages, procedures, functions, triggers, and/or DDL
- Satisfy ever-evolving customer needs through paid change controls, overseeing the process from start to finish

Accomplishments

- Led the design and development of a year-long project to extract, de-normalize, and relay all major, event-based transactions as they occur within our ERP system to our client's corporate data lake for financial analysis
- Led the on-boarding of two new DB to DB EDI partners, developing the required tables and ETL procedures
- Worked in concert with our GUI developers to design and develop the back-end of an in-house, client-facing reporting software to replace our existing end-of-life reporting software
- Designed, developed, and implemented a custom performance logging system, using it to identify inefficient queries and procedures as candidates for optimization
- Assisted with the development and implementation of a custom archiving solution for all production databases
- Rewrote our set of emergency alert-generating views that poll EDI partners' remote databases to check for missing transactions, eliminating false positives

Computer Systems Analyst

September 2018 to May 2019

Northrop Grumman

Responsibilities

- Supported various data-driven web applications using Adobe ColdFusion to integrate backend Oracle databases
- Developed various tools using Java and BAT scripting to automatically copy, move, and alter EDI files prior to them being processed through EDI maps

Accomplishments

- Led the migration of all our business partners from FTP to SFTP using SSH2 key authentication, heightening server security and privacy for data transmitted
- Created an internal database and web application to house all business contact information in one, easily reference-able place, improving quality of life for business analysts who previously relied on shared Excel spreadsheets

EDI Intern

June to September 2018

Northrop Grumman

- Developed and tested new and existing EDI maps to normalize EDI messages in various formats, such as X12, CSV, TSV etc., for introduction into a database

Application Support Intern

May to August 2017

Aires

- Developed dynamic, client-facing forms using XML and AJAX and supported various Oracle database schemas housing customer data using PL/SQL

EDUCATION

Washington & Jefferson College

2014 - 2018

Bachelor of Art, Computing and Information Studies

- Graduated Magna Cum Laude
- Minors in Neuroscience and Philosophy
- 2016 Recipient of the David and Kristin Steinburg Scholarship in Computing and Information Studies

INDEPENDENT PROJECTS

Student's Edge

Mobile Application

- Developed using Cordova and JQuery Mobile for both iOS and Android
- Allows users to keep track of classes and assignments, and provides a quick and easy way of determining how one needs to perform on an upcoming exam to reach a user-specified goal based on past performance and exam weighting

My Sunny Day

Mobile Application

- Developed using Cordova and JQuery Mobile for iOS
- Provides a soothing, sunny experience, aimed at helping those who suffer from seasonal affect disorder

Freedom Transit Bus Tracking System

Web Service

- Led the design, development, and implementation of a real-time bus-tracking web service for Freedom Transit
- Android tablets housed on the busses run a custom tracking app, written with Java using Android Studio, that send geolocation data to a Google Firebase JSON database
- A client-facing web application reads from the database and paints an interactive map using the Google Maps API

Minecraft Hue

Game Modification

- Developed a client-side mod and server-side plugin for Minecraft that communicates environmental block data in real-time to the player's Philips Hue smart lights
- This data allows the on-screen experience to be synced with the glow emitted by the lights, and generates visual responses from in-game triggers, such as lightning strikes or walking near a roaring campfire

REFERENCES

Chuck Pfeffer, BS

EDI Manager

Peraton
412.314.4129
cpfeffer@opentrac.com

Ryan Brashear, BAS

Software Developer

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412.314.4169
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Charles T. Hannon, PhD

CIS Professor & Department Chair

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PROFICIENCY

Languages

Oracle SQL
MySQL

Java

HTML5

XML

CSS3

Javascript

JQuery

Batch

Software

PL/SQL

Microsoft Access

Eclipse

NetBeans

JDeveloper

Cordova

XCode

Android Studio

Github

CVS

JIRA

Perforce / Helix