

Darwin Yip

New York, New York

Data Engineer at Button

yipdarwin@gmail.com - 646-504-1015

Summary

Specialties: Python, Java, C, C++, SQL.

Tech Stacks: Android, ReactJS, Flask.

Expertise: data modelling, ETL, dashboard and reports, full stack.

Experience

Data Engineer at Button

August 2019 - Present (2 months)

Software Engineer at PeerIQ

May 2018 - July 2019 (1 year 3 months)

- Optimize multiple services by as much as 500x by refactoring SQL bottlenecks and software

- Develop core analytics engine in Python used for generating dynamic SQL queries for financial analytics

- Develop microservice in Golang to store user generated content in Elasticsearch

- Develop permission service in Scala using Janusgraph graph database

- Manage microservices using Docker containers and k8s

- Build ETL and data feed processes integrating AWS services (EC2, S3, Athena, Glue, Crawler, Route53)

- Automate continuous integration processes (CI) using Jenkins and CircleCI

- Administer and create backup strategies for Vertica, PostgreSQL, Cassandra, Elasticsearch and Redis

- Find ways to cut monetary expenditure in infrastructure usage

Analytics Developer at City of New York

February 2016 - May 2018 (2 years 4 months)

- Developed and maintain Extract-Transform-Load (ETL) processes in Informatica and SSIS

- Designed and develop business models, subject areas, reports and dashboards in OBIEE 11g

- Developed Python solutions to retrieve and parse JSON and XML data from API endpoints

- Created Bash, Python and Batch scripts to automate data integration and scheduling

- Optimized SQL queries, data models, views, store procedures in Oracle and SQL Server

- Experienced using AWS API to create workflows in Lambda, S3, Redshift

- Managed highly visible project to reach HIPAA compliance for integration and analytics platform

- Implemented version control methodology in team using Git for OBIEE metadata repository
- Recruited, interviewed, hired, trained and supervised new employee

CRM Developer at City of New York

July 2017 - December 2017 (6 months)

Develop Dynamics CRM solution for NYC 311

Create C# plugins, Javascript form scripts, and HTML web resources using XRM framework

Experience creating portal application using MVC, Entity Data Model, and RESTful services

Design WPF forms using XAML for interactive UI

Integrate custom WPF components into Unified Service Desk for Dynamics CRM using C#

Develop Avaya CTI integration with Dynamics CRM in C#

Analytics Support Specialist at City of New York

August 2014 - January 2016 (1 year 6 months)

Created technical architectures and diagrams for new implementation of Dynamics CRM.

Created bill of materials to request servers, databases, and network connections for technical architectures.

Documented old and new standard operating procedures.

Performed support release migrations in Informatica and OBIEE.

Responded to trouble tickets and work requests, and completed in a timely manner.

Patched and upgraded enterprise applications.

Trained staff on protocols and procedures.

DHS Quiz Competition Team Leader at New York University

April 2013 - November 2013 (8 months)

Led the initiative of creating the Department of Homeland Security Quiz Competition.

Organized competition logistics.

Created content for competition such as quiz questions and website promotion.

Marketed event on social media platforms such as Facebook and Twitter.

Coordinated with industry's professionals to improve aspects of competition.

Technical Architect Support Intern at City of New York

June 2013 - August 2013 (3 months)

Provided technical support to the IT Services Division.

Developed reports to track what environments have been built and provisioned.

Gathered storage, performance, and other capacity data from multiple sources.

Tested software compatibility on Windows 7 to help transition from XP to 7.

Provided support for Siebel transition from Windows XP to Windows 7.

Took the lead on major initiatives for the application support team at DoITT, including MSI package development and scripting, database procedures for the lookup of Graffiti records and migration process automation.

Improved operations for two of DoITT's high priority programs by automating the migration process for 311 and streamlining data load processes for the Citywide Performance Reporting application, including processes for 911 data.

Summer Intern at ATC-NY

May 2012 - August 2012 (4 months)

Developed computer security software. The software is a resilient or survivable system, which continues to work after being attacked, however, with a degraded level of performance. This is done by using virtual machines to rapid checkpoint and recovery.

<http://atcorp.com/index.php/technologies/cyber-security/cyber-defense-technologies/fight-through-node>

Participant at Northeast Regional Collegiate Cyber Defense Competition

October 2011 - May 2012 (8 months)

Participated in the 2012 Northeast Regional Collegiate Cyber Defense Competition at EMC, hosted by Northeastern University.

- Worked in a team environment in order to learn and practice defensive tactics against computer exploits and internet attacks.
- Undertook interdependent study to explore cyber security issues and respective solutions.
- Worked with intrusion detection tools such as network sniffers, IPtables and system hardening.
- Experience in penetration testing and defense.
- Successfully kept Service Level of Agreement (SLA) for great part of the competition.

Consultant in Information Technology at University at Buffalo

September 2011 - May 2012 (9 months)

Upkeep the many systems and machines, provide customer support, maintain a clean and organized environment.

Public Relations Coordinator at Computer Science and Engineering Undergraduate Student Association

September 2010 - May 2012 (1 year 9 months)

Recruit members, send communications to student-body, coordinate events, tutor lower-class students and help incoming students acclimate to the study of computer science and engineering. Outreach: Present to Gaskill Middle School with activities and science kits funded by Northrop Grumman Corporation in order to encourage younger generations to pursue a field in STEM.

Research Intern at University at Buffalo

May 2011 - August 2011 (4 months)

Research done under the supervision of Dr. Shambhu Upadhyaya about accelerating techniques for filtering email spams and phishing.

Project objective is to measure speedup from sending bulk load of emails from host to host, which was achieved by using hardware acceleration and email filtering techniques.

Resident Advisor at University at Buffalo

May 2009 - August 2009 (4 months)

Trained to deal with problems, and lead floor dormitory and building activities, perform a variety of administrative tasks, play an active and positive role in a student's transition to campus life.

Promote floor participation in various on- and off-campus activities. Plan and implement academic and educational programs that meet the needs of residents.

Fundraise Intern at Richmond County Orchestra

September 2007 - June 2008 (10 months)

Promote events and gather funding for the orchestra. In charged of advertisements and fundraisers.

Education

Udacity

Android Basics Nanodegree by Google, 2018 - 2018

NYU Tandon School of Engineering

Master's degree, Cyber Security, 2012 - 2014

State University of New York at Buffalo

BS, BA, Computer Engineering, Mathematics, 2008 - 2012

Activities and Societies: Ronald E. McNair Scholar Program, Daniel Acker Scholar Program, Association for Computing Machinery, Order of Engineer, Computer Science and Engineering Undergraduate Society, Asian American Student Union, Japanese Student Association, Robotics Student Association

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Linked  **Recruiter**

Related Experience

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- Develop Dynamics CRM solution for NYC 311
- Create C# plugins, Javascript form scripts, and HTML web resources using XRM framework
- Experience creating portal application using MVC, Entity Data Model, and RESTful services

Analytics Developer at NYC Information Technology & Telecommunications (January 2016 - October 2017)

- Develop and maintain Extract-Transform-Load (ETL) processes in Informatica and SSIS
- Design and develop business models, subject areas, reports and dashboards in OBIEE 11g
- Develop Python solutions to retrieve and parse JSON and XML data from API endpoints
- Create Bash, Python and Batch scripts to automate data integration and scheduling
- Optimize SQL queries, data models, views, store procedures in Oracle and SQL Server
- Experience using AWS API to create workflows in Lambda, S3, Redshift
- Manage highly visible project to reach HIPAA compliance for integration and analytics platform
- Implement version control methodology in team using Git for OBIEE metadata repository
- Recruit, interview, hire, train and supervise new employee

Technical Support at NYC Information Technology & Telecommunications (August 2014 – December 2015)

- Designed technical architectures and diagrams for implementation of Dynamics CRM 2015
- Created bill of materials for servers, databases, network connections and security implementation
- Debugged ETLs, SQL query failures, and data inconsistencies
- Documented legacy and new standard operating procedures
- Patched and upgraded servers and applications
- Migrated applications, projects, deployments, releases and datasets
- Developed C# add-ons for Dynamics CRM 2015 solution
- Trained and performed knowledge transfer to staff
- Installed and configured OBIEE 11g, OBIEE 12c, Oracle APEX and Dynamics CRM 2015

Technical Support Intern at NYC Information Technology & Telecommunications (June 2013 – August 2013)

- Patched database data issues by creating new procedure in production environment
- Migrated repositories and list of values for support releases of Siebel
- Tested software compatibility on Windows 7 to help transition from XP to 7
- Modified MSI package to run custom VB scripts
- Created internal website to simplify Siebel user

Software Developer Intern at ATC-NY (Research & Development) (May 2012 – August 2012)

- Developed prototype for secure and resilient distributed system which restores normal settings to services using virtual machines' snapshot and rollback capabilities using Java and VMWare API

Projects

HTTP/1.0 Server (C++)

Created HTTP/1.0 server that handles static files and directory traversal using standard C socket library

REST API Generation (Python)

Created web service in Flask that generates JSON from MySQL database and handles Basic, Token authentication

Replace OpenGL immediate mode in Blender 2.8 (C)

Recoded parts of the Blender source code to replace deprecated OpenGL immediate mode functions

Web Scraper (Python)

Scraped financial data for stock analysis and prediction using Scrapy and Pandas

Resume Generation (LaTeX)

This resume was generated using LaTeX in a custom template

Distributed Messenger System Android Application (Java)

Created messenger in Android that conserves total-causal time ordering of messages without central server

Education

Coursera: Machine Learning (Andrew Ng) (2015)

New York University

Cyber Security, Master of Science (June 2014)

University at Buffalo

Computer Engineering, Bachelor of Science (May 2012)

Mathematics, Bachelor of Arts (May 2012)