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|  | **Henry Tao** |
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**Objective:**



Obtain a position with an innovative IT team that will enable me to use my strong systems integration skills and apply design principles such as event sourcing and domain driven design to build predictable real-time systems and applications.

**Summary:**



I am a determined and highly-motivated developer and database expert with eighteen years experience ranging from startups to large enterprise organizations. I am a relentless learner who craves to build elegant highly performant backend systems as well as beautiful user-focused client applications.

**Expertise and Key Skills:**



**Actively Using**

C++(11, 14); ECMAScript(6, 7); C#(3, 6); React(15); Node.js(5, 6, 7); PostgreSQL(9.6); MongoDB(3.2); SQL Server(2008); WCF(3.5); Docker(1.13)

**Used in Past**

D3.js(3.5)2+ (2013); Angular.js(1.3)2+ (2015); Oracle(10G)1+ (2009); Backbone.js2+ (2014); Python1- (2014); C1 (2011); Reporting Services3-4 (2010); WPF1 (2011); Silverlight2 (2011); Windows Forms2 (2008)

**Professional Experience:**



**NYU Langone Health**, New York, NY

*Lead Developer, Research IT* 2013 - Present

Designed and deployed MongoDB sharded cluster with 15 database instances (5 replica sets with 3 instances each), 5 config servers, and 5 mongos across 5 servers.



Allows the consumption and processing of HL7 (ADT\_A08 & ADT\_A31) messages; 30K per



day/2.5MM per month.

Easily retain TB's of storage.



Designed and implemented the Research Integration Layer that propogates real-time updates across multiple application domains including:



Epic EHR (Electronic Health Record)



Study creation in Epic from CRMS



Patient enrollment in Epic from CRMS



Synchronization of patient demographics between Epic and CRMS



PeopleSoft Finance



Proposal and award creation in PeopleSoft from Grants



Payment creation in CRMS from PeopleSoft



IRB (Internal Review Board)



CRMS (Clinical Research Managment System)



IACUC (Institutional Animal Care and Use Committee)



**Fluitec Wind**, Jersey City, NJ

*Front-end Lead Developer* 2012 - 2013

Developed custom interative data visualizations for post-process Hadoop resultsets of wind turbines



**UNFCU**, Long Island City, NY

*Consultant* 2009 - 2012

Developed and implemented mission critical ETL that powers the enterprise data-warehouse  Replaced incumbent solution that took 17+ hours daily to complete and reduced it to 45 minutes



**Ellen Tracy**, New York, NY

*Systems Integration Specialist* 2008 - 2009

Integrated 2 major retailers to enterprise Oracle ERP



**UNFCU**, Long Island City, NY

*DBA and DWH Report Writer* 2006 - 2008

**John Wiley & Sons**, Hoboken, NJ

*Senior Systems Analyst and Programmer - HRIS* 1999 - 2005

**National Financial Services**, New York, NY

*Mutual Fund Representative* 1997 - 1999

**JET Programme**, Awaji Island, Japan

*Assistant English Teacher* 1995 - 1997

**Education:**



**SUNY at Buffalo**, 1990 - 1994

*Bachelor of Science (BS), Finance and MIS, Summa Cum Laude*

**Projects:**



**LongBall-FHIR**, 2017 - Present

FHIR Modeling in C++14



**Store**, 2016 - Present

Shared API for implementing event sourcing and event store for C++ and C#



**Rx-Web**, 2016 - Present

Web server implementing observable semantics. Comes in 2 flavors:



C++11



ECMAScript 7



**Vinyl**, 2017 - Present

Yet another React primitive components library



**React FHIR**, 2016

FHIR Application built with React/Redux



**DocGraph**, 2014

Process 132 Million edges from Medicare using Hadoop and HBase inside a cluster of Docker containers

