

# BRIAN CHAN

---

5 Elkins Circle ♦ Exton, PA 19341 ♦ (215) 327-8676 ♦ [brian.chan.01@gmail.com](mailto:brian.chan.01@gmail.com)

---

## SUMMARY

Accomplished Senior Technologist with a proven track record of delivering technology solutions across multiple industries. Highly capable of wearing multiple hats, equally adept in serving as a Hands-on Engineer, Application Architect and Technical Lead. Proficient in a broad range of technologies:

- RESTful API
- Cloud Computing
- Big Data Analytics
- NoSQL Databases
- Relational Databases
- Languages: Java, Python, Node.JS

---

## TECHNICAL SKILLS

---

- **Languages:** Java/JEE, JavaScript (Node.JS, AngularJS), Python.
- **NoSQL:** MongoDB, Cassandra, DynamoDB
- **Big Data Analytics:** Hadoop (HDFS, HBase, Hive, Pig, Sqoop, Flume), Apache Spark.
- **Cloud Computing:** Amazon EC2, Amazon Web Services (S3, RDS, Data Pipeline, EMR).
- **Relational Databases:** Oracle, MySQL, SQL Server.
- **Java Frameworks:** Spring Framework, Spring Boot, Spring Batch, JPA/Hibernate.
- **Tools:** Eclipse, Gradle/Maven/Ant, GIT, Subversion, Jenkins, Talend.

---

## PROFESSIONAL EXPERIENCE

---

### MEDECISION, Wayne, PA Senior Engineer (Full-Stack/Big Data)

10/2014 – Present

Serving as a senior member of the innovation team responsible for prototyping and rapid development of a wide range of new applications in the Population Health Management space. Play key role in defining application architecture and technology stack. Utilize cutting-edge technologies to build MicroServices (REST API), Web/Mobile Apps and Big Data Analytics solutions. Notable projects listed below:

- Key member of the team that launched the company's first Mobile App that enables patients, caregivers and providers to effectively coordinate care through "social circle". Technology stack: Java, SpringBoot, Node.JS, Socket.IO, MongoDB and Ionic Framework, Twilio SMS Service and Push Notification Service.
- Key member of the team in charged of delivering the company's next generation Big Data Analytics Platform.
  - Develop data pipeline to ingest disparate Medical Claims and EMR/EHR data coming from various sources (files, Oracle, MongoDB) into Hadoop. Technologies used include: Java, Python, Sqoop, Hive, etc.
  - Write scripts to create Hive tables to be consumed by BI tools (Tableau, SAP BusinessObjects).
  - Write Python scripts to perform de-identify user privacy data in order to comply with HIPPA laws.
  - Research and experiment with Big Data technologies, such as Apache Spark and emerging technologies within the Hadoop ecosystem.

### INDEPENDENT CONSULTING Senior Lead Consultant

06/2010 – 10/2014

Versatile Senior Lead Consultant successfully served multiple roles as a Tech Lead, Application Architect and Senior Hands-on Engineer through several client engagements. Extensive experience in delivering software in an Agile environment. Specialize in Web Applications, Web Services (SOAP, REST), Relational Database, NoSQL and Cloud Computing. Capable of coding in multiple programming languages: Java, Python and JavaScript. Clients includes: NAVTEQ/Nokia, Elsevier, Comcast and Vanguard.

---

**PROFESSIONAL EXPERIENCE (*CONTINUED*)**

---

**COMCAST, Philadelphia, PA**  
**Senior Lead Consultant****02/2014 – 07/2014**

Develop highly scalable RESTful API that powers the next-generation of Comcast XFINITY Home Security/Automation platform. These web services are consumed by Mobile (iOS, Android) and Web Clients.

**Technology Stack:** Java, Spring Framework, Jersey REST Web services, Memcached, Oracle, Cassandra, Tomcat.

- Implement highly scalable RESTful API using Jersey/Spring/Java/Websockets.
- Integrate 3<sup>rd</sup>-party systems (iControl, EcoFactor) into the Comcast XFINITY Home Automation Platform.
- Provide guidance to Mobile Teams to ensure proper API integration.
- Play a lead role in introducing proactive system health and performance monitoring in a production environment (Splunk, Nagios).

**ELSEVIER, Philadelphia, PA**  
**Senior Software Engineer****07/2012 – 2/2014**

Develop a scalable cloud-based Content Management System to serve high volumes of electronic published medical resources (journals, books, Medline, clinical trials data, drug information and other health science content). This system provides data feeds for the **Elsevier's ClinicalKey** (Smart Content Search Engine), which serves medical professionals with faster and more intuitive clinical insights from trusted authoritative sources.

**Technology Stack:** Java, Spring Framework, Spring MVC, GWT, Amazon AWS (S3, SNS, SES, SQS, Amazon Oracle RDS, SimpleDB, DynamoDB, Data Pipeline)

- Develop data ingestion framework to facilitate rapid integration of new content of various formats into the system.
- Develop a variety of data parsers using DOM, SAX and Streaming XML Parsers.
- Automate and orchestrate data ingestion processes using a combination of EMR and Amazon Data Pipeline.
- Develop data content tracking and alert services, reducing issue identification and resolution time by 60%.
- Develop RESTful API (Spring MVC) to provide data access to front-end and middle-tier.
- Lead and mentor junior developers.

**NAVTEQ/NOKIA – Location and Commerce, Malvern, PA**  
**Lead Software Engineer****06/2010 – 5/2012**

Lead Engineer on a SCRUM team of 6 developers. Designed and implemented a Location-based Mobile Advertising Platform, which comprised of API's and Web Applications for managing Campaign Content, Storefront Locations /Maps and Location-aware Ad Serving API serving 6+ million daily requests.

**Technologies:** Java/JEE, Hibernate, Spring (Core, Spring MVC), JBoss RESTEasy, Jersey, JMX, JQuery.

**Application Platforms:** Tomcat, Apache, Microsoft SQL Server, Cassandra, Linux, Nagios.

- Led a SCRUM team in hands-on application development, successfully deliver a new application within 3 months.
- Collaborated with Enterprise Architects to ensure proper technology selections across all projects.
- Collaborated with Product Owner, SCRUM Master and Stakeholders in Backlog prioritizations, User Story analysis and Sub-task break-downs/estimates. Assisted in workload and resource allocations.
- Worked closely with cross-functional teams in application testing, rollout and on-going support.
- Assisted existing .NET developers in transitioning to Java and become productive within 2 months.
- Incorporated Test-Driven Development, Automated Testing and Continuous Integration into Development Cycle.
- Implemented Self-Service API to enable Business Partners to integrate with Nokia's Location-based Advertising Platform into their systems.
- Implemented application monitoring and performance profiling (JMX and Nagios), allowing proactive issue identification and speed up issue resolution time.

---

**PROFESSIONAL EXPERIENCE (*CONTINUED*)**

---

**PFIZER (formerly Wyeth) – R&D Business Technology, Collegeville, PA**  
**Senior Technology Lead****02/2002 – 06/2010**

Designed and developed custom applications as well as integrating Commercial Software Products into existing systems to support Clinical R&D. Served as a lead developer, architect and technical lead on various projects over the years.

**Technologies:** Java, J2EE (EJB, JMS), JSP, Hibernate, Spring Framework, Struts, Web Services, Eclipse RCP, PL/SQL

**Application Platforms:** WebLogic Application Server, Oracle Database (9i, 10g)

**THOMSON REUTERS (formerly Reality Online, Inc.), Norristown, PA**  
**Senior Software Engineer****01/1999 – 02/2002**

Developed web portals that deliver real-time streaming market data, portfolio management and online trading capabilities for brokerage firms. Technologies employed include J2EE, AWT/Swing Applet, ASP/COM, TIBCO Rendezvous messaging middleware and Oracle database.

---

**EDUCATION**

---

- Drexel University: Master of Science in Computer Science
- Drexel University: Bachelor of Science in Electrical Engineering