VP of Architecture & Principal Lead Architect

Summary

- » 21+ years of professional experience designing, implementing and delivering scalable software systems.
- » Led team of software architects to have a major positive impact on the broader engineering organization.
- » Several decades of experience working with distributed systems using tools including Java, Scala, JavaScript, Python, Docker, and Kubernetes.
- » Led several migrations from legacy deployment technologies to Docker and Kubernetes.
- » Skilled leader of technical engineering teams.
- » Passionate about leveraging the right technology for the right situation.

Professional Experience

VP of Architecture & Principal Lead Architect InMoment

Oct 2018 - Present Pittsburgh, PA

- » Led architecture of the XI Platform.
- » Led team of architects in guiding engineering teams to solve challenging problems.
- » Developed and led cloud strategy on AWS.
- » Designed and led the implementation of operational visibility strategy.
- » Architected systems to improve scalability and performance of our platform.
- » Trained engineering organization on Kubernetes, Docker, Operational Visibility, Kafka and other topics.
- » Guided adoption of GraphQL APIs including Graph Federation.
- » Led several migrations to the cloud and Kubernetes.
- » Participate in technical due diligence for acquisitions.
- » Led overhaul of engineering hiring process.
- » Led design and implemention of a new on-call process.
- » Created and led the Architecture Guild.
- » Designed and instituted a Component Maturity Process.
- » Led efforts in horizontal and vertical auto-scaling of services.
- » Wrote and released Open Source tooling for Operational Visibility Automation (Kibana Sidecar).
- » Led standardization of CI/CD processes throughout the organization.
- » Researched, evaluated and determined which new technologies and tools the organization should leverage.

Languages: Java, JavaScript, TypeScript, Bash, Groovy, Python, SQL.

Software: Apollo GraphQL, Apache Kafka, AWS Services, Docker, KEDA, Kubernetes, Elasticsearch, RabbitMQ, ActiveMQ, PostgreSQL, Redis, Node.js, Bamboo CI, Maven, MongoDB, OpenTelemetry, Grafana, Prometheus, ELK Stack, Ubuntu and CentOS Linux.

Advisory Software Engineer IBM Watson

June 2014 - Oct 2018

Pittsburgh, PA

- » Led team of engineers in developing several components of the Watson Discovery Service.
- » Developed and deployed multi-tenant cloud-based applications.
- » Developed scalable document ingestion system using Scala and RabbitMQ.
- » Designed and developed Neural Networks.
- » Triaged and debugged production systems during critical deadlines.
- » Designed and deployed distributed systems on Docker and Kubernetes.
- » Designed and implemented user-friendly REST APIs.
- » Integrated with internal and third-party REST APIs.

Languages: Scala, Java, Groovy, Python, SQL.

Software: Docker, Kubernetes, Elasticsearch, RabbitMQ, PostgreSQL, Redis, Etcd, TensorFlow, OpenWhisk, Node.js, Jenkins, Gradle, Mesos/Marathon, JUnit/ScalaTest, Cassandra.

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VP of Architecture & Principal Lead Architect

Lead Software Engineer

Aug 2008 - May 2014

Autonomy Corp. / Hewlett-Packard

Denver, CO

- » Led teams of engineers as Scrum Master in Scrum Agile methodology.
- » Developed scalable Social Media Analytics distributed system in Java, Groovy, RabbitMQ and MongoDB.
- » Developed Legal & Compliance distributed systems in Java and C++.
- » Implemented integration with several Autonomy and third-party components and APIs.
- » Reviewed technical research papers for internal technical conference.

Languages: Java, Groovy, C++, SQL, JavaScript, HTML, CSS, Sass.

Software: Spring, Spring MVC, ExtJS / Sencha, SQL Server, PostgreSQL, Vertica, RabbitMQ, MongoDB, CouchDB, Node.js, IDOL, IDOL Connectors, Apache FOP, Hudson/Jenkins, JUnit. *APIs:* OAuth, Twitter API, Facebook API, DataSift API, Moreover API.

Software Engineer

WonBid, LLC

Jan 2008 - July 2008

Pittsburgh, PA

» Developed online auction platform in Python and Django.

- » Developed REST API supporting both XML and JSON.
- » Administered Linux servers.
- » Submitted patches to open source projects.

Languages: Python, SQL, JavaScript, HTML, CSS.

Software: Django, PostgreSQL, jQuery.

Graduate Teaching Assistant, Graduate Research Assistant Georgia Institute of Technology

Aug 2006 - Dec 2007

Atlanta, GA

- » Directed lab for Computer Architecture and Operating Systems.
- » Investigated QoS in distributed information systems.

Languages: Java, C++, XML/XSL/XPATH.

Software: DDS, Xerces, libXML.

Research Analyst

May 2007 - July 2007

Air Force Research Laboratory / Information Directorate

Rome, NY

- » Accelerated XML predicate evaluation by 15 times.
- » Integrated XML predicate evaluation engine into the 100X Joint Battlespace Infosphere (JBI).

Languages: Java, C++, XML/XSL/XPATH.

Software: DDS, Xerces, libXML.

Lead Web Developer Goldhead Group Ltd.

May 2005 - Jan 2007

State College, PA

» Created a dynamic e-commerce website using PHP and MySQL.

Languages: PHP, SQL, JavaScript, CSS, HTML.

Software: MySQL.

Software Developer

May 2004 - Aug 2006

Westinghouse Electric Company / Engineering Computing

Monroeville, PA

» Developed nuclear fuel analysis software in Java, C, and C++.

Languages: Java, C++, C, XML/XSL/XPATH.

Software: Maven, CruiseControl, JUnit, Apache Forrest.

Justin Fiore

VP of Architecture & Principal Lead Architect

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Web Developer

June 2002 - Aug 2003

State College, PA

Affinity Connection, Inc.

» Created multi-tenant data-driven PHP websites with MySQL.

Languages: PHP, SQL, JavaScript, CSS, HTML.

Software: MySQL.

Skills

Software Development: Scala, Java, Groovy, Python, Rust, C++, PHP, C, Perl, JavaScript, Matlab,

UML, ExtJS / Sencha, jQuery, CSS, Spring, Hibernate, HTML

Database & Search Technologies: Elasticsearch, Redis, Etcd, Cassandra, MySQL, SQL Server,

PostgreSQL, DB2, Vertica, MongoDB, CouchDB, Autonomy IDOL, Lucene/Solr

Platforms: AWS, Amazon Kubernetes Service, IBM Cloud, Kubernetes, Mesos/Marathon, Docker,

Amazon S3, IBM Cloud Object Storage

Build Automation: Git, Jenkins, Gradle, Ant, Maven

Research

"Using YFilter Concepts for Fast Brokering in the Joint Battlespace Infosphere"

"FSFS: A Fault Tolerant, Secure, Distributed File System"

"Next Generation Radar and Signal Processing on the Cell Broadband Engine"

Education

Georgia Institute of Technology

GPA: 3.87

Master of Science in ECE

December 2007

Major: Electrical and Computer Engineering

University of Pittsburgh

GPA: 3.85

Bachelor of Science in Engineering

August 2006

Major: Computer Engineering

Awards Received "Leave Your Mark" Recognition, InMoment

Outstanding Technical Achievement Award, IBM Watson

Superman Award, IBM Watson

Eagle Scout Award, Boy Scouts of America

Outstanding Graduate Teaching Assistant Award, Georgia Institute of Technology

Dean's List, University of Pittsburgh and Georgia Institute of Technology