Edward Barlow

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PROFESSIONAL SUMMARY

Senior Principal Engineer with 30+ years of hands on leadership delivering business solutions, critical infrastructure, and data platforms for leading hedge funds, insurance companies, and startups. Deep technical expertise. Full Stack.

AI Assisted Developer using Claude and OpenAI to levergage my wide deep expertise and very strong writing skills (excellent technical writer, published author) in multiple disparate projects. **Early adopter** across across multiple technology waves: C++, SQL, Java, Automation, Streaming, Big Data.

Leadership approach: Active listener and communicator who translates business concepts into actionable technical plans and execution to drive vision, execution, quality, and a collaborative culture. Detail oriented. Published author.

CORE COMPETENCIES

Leadership & Delivery: Team Leadership • Agile/SAFe • Digital Transformation • Process & Governance • Roadmaps

Technical Expertise: High Speed Data Engineering • Database and Data Architecture (All Aspects) • Microservices & APIs • Data Quality • Security • CI/CD/DevOps • Analytics/KPIs/Reporting • Documentation & Presentation

Data & Scale: Data at Size & Speed • ETL/ELT Pipelines • Streaming • Data Warehousing • Internet Of Things

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/Angular, SQL, Bash, C/C++, Perl

Databases: PostgreSQL, MySQL, Oracle, Sybase, SQL Server, Snowflake, Aurora, VoltDB

NoSQL: DynamoDB, Elasticsearch/ELK, Redshift, Delta Lake, Databricks

DevOps & Infrastructure: Terraform, Docker, Kubernetes/Openshift, Jenkins, Ansible, Airflow, Linux, Windows Server, AWS

Data & Streaming: Kafka, ETL Pipelines, DBT, Delta Lake

PROFESSIONAL EXPERIENCE

FUTURE STANDARD INVESTMENTS

VP - Lead Engineer | 09/2024 - Present

- Responsible for $40Bn Portfolio Advisor's private wealth management business
- Delivered Canoe Intelligence (AI Document Parsing) enterprise document flow processing solution
- Responsible for Dealcloud Workflow System

EVERNORTH HEALTH SERVICES LLC (CIGNA)

Software Engineering Senior Advisor | 05/2020 - 09/2024

- Managed 6-8 engineers on enterprise reporting platform transformation
- Crafted Data pipelines from Hadoop/Teradata to Redshift/Snowflake for new reporting content
- Delivered product documentation, Git flow/UAT/release/support processes, enterprise cloud security solution, E2E testing framework (Cypress), and usage monitoring (Divolte)
- Served as Product Owner for one year managing planning/strategy, stakeholder relationships, and business alignment
- Technologies: AWS, Python, Terraform, Aurora/PostgreSQL, Redshift, DynamoDB, Angular, SAS, Snowflake Delta Lake, Teradata Vantage, Databricks

POINT 72 ASSET MANAGEMENT L.P.

Platform Engineering Consultant | 05/2018 - 04/2020

- Led platform modernization initiative migrating Hadoop to OpenShift (Kubernetes) and Elasticsearch
- Served as Senior Kafka expert for the team on high volume streaming data platform
- Reduced AWS costs by 20% through dynamic infrastructure scaling
- Technologies: AWS, OpenShift, Ansible, Jenkins, Docker, Kubernetes, Python, Airflow, Kafka

WALKER DIGITAL TABLE SYSTEMS LLC

Director of Database, Architecture, and Business Intelligence | 07/2013 - 05/2018

- Led 2 scrum teams (infrastructure and reporting) for casino floor management startup
- Direct CIO report managing all non-java technical initiatives
- Java API and REST microservice architecture for high-performance streaming Internet of Things based on Kafka
- Real-time high-speed multi-host in-memory distributed database system (VoltDB)
- Kafka streamed reporting warehouse for 200+ operational reports using skinned Jaspersoft
- Technologies: Kafka, Python, PostgreSQL, Java, Jenkins, Docker/Kubernetes, Tableau, Elasticsearch (ELK), Jasper Reports, Crystal Reports, Bash, Angular

MILLENNIUM PARTNERS LLC

Director of Internal Tools and Architecture | 07/2011 - 12/2012

- Responsible for modernizing IT process and tooling across the organization
- Deployed and managed incident management system (Remedy) and Support Portal
- Delivered change management processes and procedures
- Built 15,000 CI configuration management database (CMDB)
- Implemented purchasing and deployment processes

MILLENNIUM PARTNERS LLC

Director of Database and Compliance Infrastructure | 03/2003 - 07/2011

- Direct CTO report at high-volume quantitative hedge fund
- Managed 175 production database systems (Sybase, MySQL, PostgreSQL, Oracle, SQL Server)
- Led 24x6 worldwide team of 6-8 administrators and developers
- Developed in-house compliance systems for entitlement review, certifications, personal trading, and restricted list
- Implemented disaster recovery and business continuity for critical trading systems
- Windows Server, Linux, and SQL Databases Expert responsible for data and database operations

SQL TECHNOLOGIES LLC

Principal | 09/1994 - 03/2003

- Full Stack Independent contractor providing database and development services
- Clients Included:
    - **Time Warner:** Saved $100 million magazine process rewrite with a 9 month contract optimization and tuning
    - **JP Morgan:** Built Morgan Cage. Built Enterprise Security Master. Managed 20 Sybase contractors for a large corporate transformation
    - **Bankers Trust:** Enterprise risk management system (RAROC)
    - **Weiss, Peck & Greer:** Core C libraries for top-ten-volume trade processing infrastructure
    - **Sanford Bernstein:** Primary order routing system for top-ten-volume trading desk
- Technologies: Sybase, Sybase/IQ, SQL Server, PostgreSQL, Oracle, C/C++, Bash, PowerBuilder, Perl/CGI, Erwin

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EDUCATION

Cornell University
Master of Engineering, Electrical Engineering

Cornell University
Bachelor of Engineering, Electrical Engineering

CERTIFICATIONS

- AWS Cloud Practitioner
- ITIL Foundation Certification

PUBLICATIONS & PROJECTS

Author: **Process-Based Database Administration** (2017) - Best practices for scaling IT platforms, governance, and operational excellence

Principal: **GEM - Generic Enterprise Manager** (2005-2012) - Full-featured enterprise operations portal for Win32/Linux hosts and databases with log monitoring, alerting, and auditing. Similar to Service Now.

Principal: Open Source -- **Sybase & SQL Server utilities and backup scripts** (widely adopted open source)

Principal: Open Source -- **Conquer - A fantasy C/C++ multiplayer game** like Civilization (~100,000 lines of C/C++)