

Tim Chadwick

Over twenty years of experience building scalable platforms with success in industries such as life sciences, telecom, and healthcare. Successful track record of leading teams as Solutions Architect, Principal Engineer, and Senior Software Engineer.

Background in database and data modeling has led to broad and deep experience building data processing systems and supporting infrastructure at significant scale. Passion for customer success has led to focus on measurable goals, accountability and building customer trust. Committed to contributing to innovative endeavors which improve the wellbeing of people and our planet.

Experience

Treehouse Tech Group (TTG), 2022 - Present

Solutions Architect

Serve as the lead for projects including cloud acceleration, investment due diligence, IT audits, cost optimization and full stack builds. Work with the sales team to deliver RFPs, discovery decks, architecture plans and POCs. Solutions span on-prem, AWS, and Azure. Recent year-long project involved building an enterprise analytics solution as the start of a cloud transformation strategy. Worked directly with the investment team, executives, and new staff to own the solution. Recent tools include Fivetran, Azure Data Factory, dbt, MS-SQL, Azure SQL and Snowflake with build using Github Actions and Terraform.

Readcoor (RC), 2017 - 2021

Senior Software Engineer

Pioneered FISSEQ spatial data modeling using [PostGIS](#), [PDAL](#), and [Potree](#). Built primary data processing flows including on-device data egress and secondary analysis for bioinformatics using Nextflow. Established platform infrastructure in AWS and deployed Direct Connect to transmit 5TB data models. Managed all IT and lab systems including Mandiant Fireeye cybersecurity. Deployed redundant lab link which sustained research during fiber incident for non-essential staff working remote in early pandemic lockdown.

Dynamic Network Services (Dyn), 2011 - 2017

Database Architect, DBA, Manager, Principal Engineer

Built the DynECT DNS platform and increased scale by orders of magnitude. Supported 25% Q/Q growth over 5 years. Half a dozen databases grew to a fleet in the hundreds and supported hundreds of resolvers across several products over 25 data centers. Planned and deployed all upgrades delivering 100% resolution uptime and three 9s API and secondary services. Was the primary escalation contact for



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timchadwick.io and as [PDF](#)

Soft Skills

Leadership, Problem Solving, Public Speaking, Mediation, Operations Management, Project Management, Product Development, Customer Relationship Management, Business Intelligence / Analytics

Tech Skills

Python, Java, Perl, SQL, PL/pgSQL, T-SQL, .NET, UNIX shells and PowerShell, PostgreSQL / PostGIS, MySQL, Oracle, MS-SQL, MongoDB, Cassandra, DynamoDB, RDS, Redshift, Snowflake, dbt, Azure SQL, Azure Data Factory, Linux, AWS, Azure, Terraform (Certified Associate), Github

Community Contributions

University of New Hampshire

Applied Engineering Dept.

Lecturer 2017 - 2023

Data Analytics Institute *Advisory*

over half of revenue and goto technical contact for pre-sales efforts including Redhat, Paypal, AWS, Acquia and others. Built an entire high availability streaming data integration system to win business for customers with exceptional cybersecurity analysis requirements. Worked closely with CDNs like Fastly for edge network optimization. Significant contributor to customer trust through conference speaking, delivering webinars, contributing to training materials, blog posts and client solutions.

Institute for Health Metrics (IHM), 2010 - 2011

Software Engineer, DBA

Significant contributor to first ever Meaningful Use implementation backed by MongoDB and Groovy. Designed and deployed a regression suite system using [FitNesse](#) which established indicator validity and automated contributions by non-technical clinicians. Migrated Oracle implementation to PostgreSQL. Supported production deployments for over 50 clinical entities (EPIC) and on-premises HIPAA compliance.

TechTarget (TT), 2006 - 2010

Software Engineer, DBA

Mentor declared “free safety” for an Oracle based data warehouse, using Java, Perl, and PLSQL to develop ETLs and implement all integrations for acquisition growth strategy.

CollegiateLink (CL), 2003 - 2007

Founder, Engineer, DBA

Built Student Activities SaaS solution as full J2EE stack with 100+ single tenant MySQL backed instances.

Analog Devices (ADI), 2003 - 2005

Analyst, DBA

Sybase and Oracle based data warehouse with 1000s of users, ultimately reporting to CFO, SOX compliance, manufacturing.

EDUCATION

Northeastern University (NEU), 2006 - 2007

Masters of Science in Technological Entrepreneurship

Subjects included high-tech finance, opportunity assessments, technology marketing, intellectual property, operations management, product development and technology transfer. Built a novel Internet visualization system relying on operations research with the focus for program capstone; advised by [John Friar Ph D](#).

Wentworth Institute of Technology (WIT), 1999 - 2003

Bachelors of Computer Science (3.0 / 4.0)

Graduated from a program well known for applied skills combined with computing theory. Focus on semantic web development (early RDF) while working at [Clinician Support Technologies](#), inspired graph visualization engine modeled after [tools](#) from [Bell Labs](#) for capstone.

Board 2015 – 2017

Computer Science Dept.

Advisory Board 2013 – 2017

Adjunct Professor 2014 - 2017

Speaking Engagements

UNH NCSAM 2020 Virtual

Conference: [A Modern Hybrid Network: Design & Security](#)

UNH Paul School Data

Symposium speaker 2017

Percona Live 2014: Visualizing Database Performance

Surge Conference 2013:

[Measurement Debt to Data High](#)

NH High Tech Council 2012:

[The Vital Role of Database](#)



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