

# DR. POUYA ATAEI

Engineering Leader & Solutions Architect (PhD in Big Data)

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Pouya-Ataei



## Executive Summary

Engineering leader with 13+ years of experience architecting enterprise-scale solutions and building high-performing technical teams. Successfully transitioned from hands-on engineering to leadership roles, managing teams of 35+ engineers while maintaining deep technical expertise in Big Data, cloud platforms, and AI systems. Experienced in partnering with stakeholders to deliver business value through technical innovation, with a proven track record of scaling teams from inception to maturity. My approach combines analytical precision with creative problem-solving, always focusing on customer success and sustainable growth.

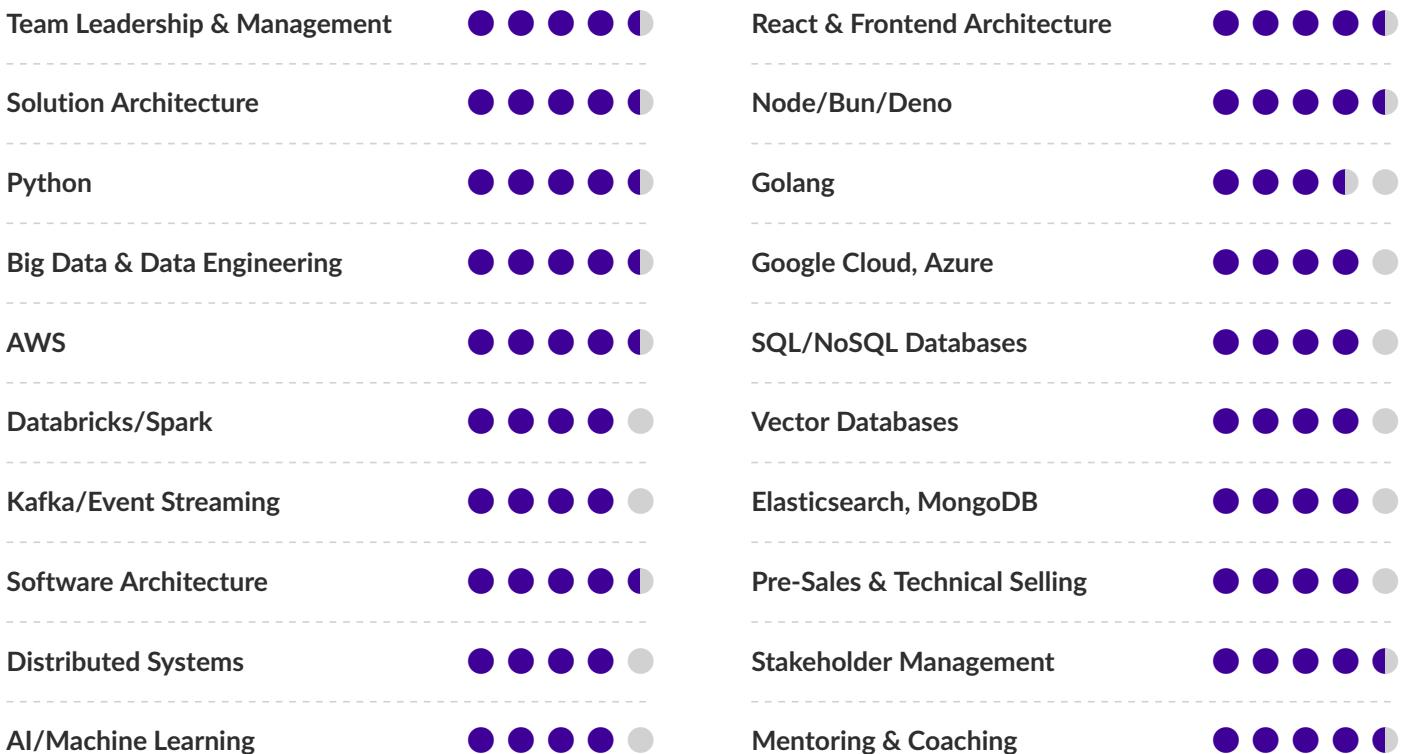
## What I Bring to the Table

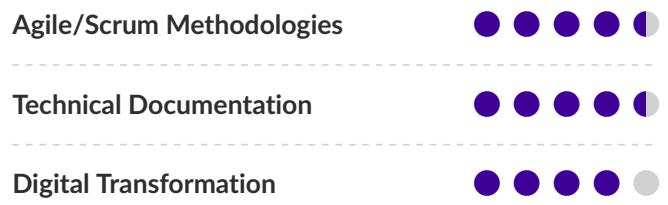
- Team Leadership:** Managing 35+ engineers across multiple teams, with experience building teams from scratch and scaling them effectively
- Technical Depth:** PhD in Big Data with hands-on experience in distributed systems, event-driven architectures, and cloud platforms
- Business Acumen:** Engaged with representatives from Databricks, AWS, Confluent, and other major vendors to drive architectural decisions
- Solution Architecture:** Designed enterprise-scale systems serving millions of users with focus on performance and reliability
- Mentorship Focus:** Passionate about developing talent, having mentored engineers from junior to senior levels throughout my career

## What I'm Looking For

- Building and leading teams of talented solutions architects
- Partnering with sales organizations to drive technical strategy
- Working with cutting-edge data and AI technologies
- Creating customer-focused solutions that deliver real business value
- Opportunity to shape technical culture and processes
- Balance between strategic leadership and technical involvement

## Skills





## Work Experience

### Principal Data Engineer at Vector Limited

Auckland, New Zealand

May 2025 – Current

- Lead the design and implementation of large-scale, serverless data architectures for ingesting, processing, and analyzing energy data from smart meters and network performance systems.
- Bridge data science and software engineering by developing and operationalizing energy analytics models that support demand forecasting, asset optimization, and grid flexibility.
- Drive AWS cloud cost efficiency through best practices in Glue, Athena, S3, DynamoDB, and event-driven architectures.
- Implement automated data validation, lineage tracking, and observability to maintain data quality and ensure compliance with regulatory frameworks.
- Architect and deploy energy data algorithms while ensuring efficient and scalable model inference integrated with data platform services.
- Mentor junior engineers, fostering a high-performance engineering culture aligned with the company's long-term technology vision.

Tech & Tools: AWS (Lambda, DynamoDB, S3, Glue, Athena), Python, Serverless Architecture, Data Engineering, Machine Learning, Event-Driven Architecture, Data Science

### Engineering Manager at Invenco by GVR

Auckland, New Zealand

Sep 2024 – May 2025

- Lead the strategic 'Engage' domain, managing 35 engineers across 4 cross-functional teams, overseeing critical distributed systems that operate at world-class scale (8 out of 10 petrol stations in USA).
- Serve as the principal architect for the entire 'Engage' domain, holding sole responsibility for architectural decisions and technical direction across all systems and services.
- Design and implement event-driven architectures using Kafka and AWS EventBridge, enabling real-time data processing and system integration at scale.
- Establish and enforce engineering excellence through comprehensive TypeScript guidelines, Clean Architecture principles, and Domain-Driven Design practices across all teams.
- Implement Value Stream Management and Flow Framework methodologies to optimize delivery pipelines and enhance team productivity while reducing cognitive load.

Tech & Tools: AWS, OpenTelemetry, Node.js, Kubernetes, Docker, Terraform, Kafka, Microservices, Python, Snowflake

### Lead Development Architect at Idexx Laboratories

Auckland, New Zealand

Sep 2021 – July 2024

- Stood responsible as one of the company's lead architects, taking part in critical technological decisions across different regions.
- Worked on an event-driven architecture using Kafka, deployed and tested an archetype with consultants from Confluent.
- Presented the company and engaged with representatives from Databricks, Heap, Apollo, AWS, Gitlab, Confluent, BizzDesign and others.
- Created a scientific methodology for software delivery.
- Introduced novel data-driven approaches to decision making.

- Designed infrastructure, applications and integrations on daily basis.
- Coached and mentored junior, intermediate and senior engineers, providing guidance on best practices, and best ways to learn.
- Supported various teams in various feature development through high-level models and also hands-on coding.
- Completed various leadership courses, including CASCADE, and practiced servant leadership principles, prioritizing team growth and well-being.
- Applied concepts from "Leaders Eat Last" and "The Servant" to foster a culture of trust and collaboration, leveraging Team Topologies and Domain-Driven Design to streamline communication and align team efforts.

Tech & Tools: Archimate, TOGAF, ADM, BDD, DDD, AWS, Kafka, Go, Graph, SQL, Terraform, Kubernetes, Elasticsearch, GraphQL, React, Typescript

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## Tech Lead at Idexx Laboratories

 Jun 2021 – Sep 2021

Auckland, New Zealand

- Served as a key lead architect, driving critical technological decisions and strategies across various regions, emphasizing my pivotal role in shaping the company's technological landscape.
- Designed and deployed a distributed data layer, introducing a declarative client-driven API to enhance system flexibility and client interaction efficiency.
- Engineered an event-driven architecture leveraging Kafka, including the deployment and rigorous testing of a prototype in collaboration with Confluent consultants, showcasing my expertise in modern, scalable system design.
- Actively engaged in feature development, technical debt reduction, and incident management, contributing to continuous improvement in system reliability and development practices.
- Presented scientific approaches and innovative solutions across different teams to address existing challenges and develop new features, fostering a culture of continuous learning and cross-team collaboration.

Tech & Tools: Laravel, Terraform, AWS, Apollo, Go, Rust, Node, React, PHP, SQL, Kafka, Python, Kubernetes, Elasticsearch, TypeScript

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## Senior Fullstack Developer & Tech Lead at ezyVet

 Jul 2020 – Jun 2021

Auckland, New Zealand

- Elevated from Senior Frontend Developer to Frontend Tech Lead within Ezyvet, taking comprehensive responsibility for all frontend applications, demonstrating rapid professional growth and trust in my leadership and technical capabilities.
- Championed the integration of best practices and cutting-edge technologies into the team's workflow, significantly enhancing project outcomes and efficiency. Actively contributed to the development and refactoring of complex features, reinforcing the team's adaptability and technical prowess.
- Orchestrated a major refactor of the frontend codebase, quintupling its modifiability, performance, and security, which substantially boosted the application's reliability and user satisfaction.
- Spearheaded the recruitment process for new talent, playing a pivotal role in interviewing, onboarding, and mentoring new hires, thereby fortifying the team's capabilities and fostering a culture of continuous learning and improvement.
- Addressed critical engineering challenges in both the frontend and platform domains, implementing solutions that dramatically optimized our deployment pipeline—cutting build and deployment times from an average of 45 minutes to just 8 minutes, greatly accelerating product iteration cycles and enhancing team productivity.

Tech & Tools: React, AWS, Go, Laravel, Kubernetes, Terraform, PHP, Node, Typescript

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## Full Stack Developer at Infosys

 Feb 2020 – Jul 2020

Auckland, New Zealand

- Deployed to Vodafone to take part in the development of a new E-shop.
- Began as a frontend developer, but I rapidly expanded my role to encompass CMS and backend development, demonstrating flexibility and a broad skill set.
- Was one of the main engineers that worked on the frontend and the e-commerce backend. The work included checkout processes, cart validation, product pages, and component design, along with optimizing SEO, implementing analytics, conducting UI and end-to-end testing, and driving integration projects.
- Worked on various legacy Oracle systems and written integration and anti-corruption layers.
- Collaborated closely with a diverse range of stakeholders on a daily basis, focusing on the development of innovative concepts, and the identification and resolution of bugs and defects, ensuring continual improvement and operational excellence.

Tech & Tools: React, Flask, DynamoDB, Jenkins, AWS, BigCommerce, Java, Python, Javascript

## Frontend Engineer at Navigate Travel

Auckland, New Zealand

 Jun 2019 - Feb 2020

- Spearheaded the migration of three websites from WordPress to Gatsby, integrating React, Contentful, and Node (NestJS), successfully transitioning 900 blog posts with a keen focus on SEO optimizations and schema markups.
- Enhanced the performance and SEO of existing WordPress sites, implementing advanced optimization strategies to improve search engine rankings and user engagement.
- Developed a cross-browser, responsive web application that combines dynamic and static elements, delivering an exceptional user experience on all devices.
- Managed API concurrency issues, dynamically updating product prices, names, and descriptions to ensure real-time accuracy and responsiveness.
- Contributed to refining the company's SEO strategy, leading to measurable improvements in web visibility and traffic.
- Collaborated in the UI/UX design process, creating intuitive and user-friendly interfaces that enhance customer satisfaction and engagement.
- Leveraged emerging technologies in both front-end and back-end development, significantly increasing application performance and speed.
- Implemented a polyglot persistence architecture, enhancing system efficiency and scalability to support growing data demands and diverse data types.

Tech & Tools: *Gatsby, Contentful, React, Node, Sass, Graphql, Netlify, Vercel, Gitlab Pipelines, AWS, Google Cloud*

## Founder, Lead Fullstack Developer at Pouyaraveshan Academy

Tehran, Iran

 Feb 2017 - June 2019

- Implemented servant leadership principles from "The Servant" to empower and uplift team members, creating a collaborative and growth-oriented environment, drawing from insights in the book "Leaders Eat Last".
- Optimized SEO strategies, achieving an average website position of 8.5 and a click-through rate (CTR) of 6.5%, significantly enhancing online visibility.
- Directed a team to launch an early version of our website's Accelerated Mobile Pages (AMP), resulting in a 70% increase in traffic.
- Conducted computer science and software engineering workshops, covering a wide array of technologies and empowering participants with new skills.
- Oversaw key operations including marketing, content creation, administration, student engagement, system development, and orchestration, driving comprehensive organizational growth.
- Regularly developed, maintained, and enhanced pouyaraveshan.org, ensuring an engaging user interface and robust backend functionality.
- Implemented and fine-tuned a Learning Management System (LMS), both improving client experience and streamlining organizational processes through automation.
- Implemented an online learning system using Adobe Connect and custom built backends. I have then integrated this system with our LMS, and POS systems.

Tech & Tools: *ReactJS, NodeJs, Mongo, Adobe Connect, Mysql, PHP, Golang, C#, Java*

## Full Stack Developer at Cake Creative Digital Lab

Kuala Lumpur, Malaysia

 June 2015 - Nov 2016

- Engaged in diverse web development projects, including front-end design and e-commerce, enhancing system customization and exclusivity.
- Reduced rework by 22% and cut costs by 15% by engineering a reusable utilities library.
- Achieved high user experience scores across all web development projects, ensuring an intuitive and effective user interface.
- Optimized project performance to consistently meet or exceed a 95% Google Pagespeed score.
- Conceptualized and prototyped an average of 25 new product features annually, significantly contributing to product enhancement.
- Led the development of a website that garnered the 2015 Malaysia Website Award for outstanding UI/UX and structure.
- Played a key role in the full project lifecycle, from development and maintenance to deployment, emphasizing robust and scalable solutions.
- Collaborated with the development team to ascertain user requirements, formulate use cases, prioritize tasks, and draft comprehensive documentation.
- Conducted thorough analyses of web-based systems to identify and rectify defects, bolster performance, and fortify security measures.

Tech & Tools: Wordpress, Magento, Opencart, AngularJS, Vanilla JS, PHP, C#, Golang

## Workshop Assistant, Python Developer at Kidocode

Kuala Lumpur, Malaysia

Feb 2015 - May 2015

- Completed a 3-month internship, during which I facilitated Python, NoSQL, Cloud, and Web Development workshops at various universities in Kuala Lumpur, enhancing educational outreach and technology adoption.
- Diagnosed and resolved student's coding issues during workshop sessions, ensuring smooth and effective learning experiences.
- Played a role in the development of the company's loyalty campaign platform, coding various aspects from database to frontend.
- Engaged in youth education initiatives, teaching programming fundamentals through both hands-on (plugged) and theoretical (unplugged) methods, fostering early interest in technology.

Tech & Tools: Django, Numpy, Matplotlib, AngularJS, Mongo, Python

## 🎓 Education

B.S.C in Software Engineering (Dual Degree)	Staffordshire University	Jan 2012 – April 2015
B.S.C in Software Engineering (Dual Degree)	Asia Pacific University of Technology	Jan 2012 – April 2015
M.S.C in Software Engineering	Staffordshire University	Setember 2015 – Feb 2017
P.H.D in Computer Science	Auckland University of Technology	Feb 2019 – May 2024
Nano Degree in Data Architecture	Udacity	Dec 2022 – Feb 2023

## 🌟 Certificates

PyResearcher - Sixty Hours (Python - Mongodb - Numpy - Matplotlib - Pandas)	Pycademy	April 2015
MCPS: Microsoft Certified Professional	Microsoft	October 2015
MS: Programming in HTML5 with JavaScript and CSS3	Microsoft	October 2015

## 🧪 Publications

## 🌟 Community Engagement

- IEEE Computer Society  
Academic Contributor  
Jan 2021 - Present
- Association for Information Systems (AIS)  
Academic Contributor  
May 2019 - Present

## Presentations Delivered

- International Conference on Control, Electronics and Computer Technology - ICCEIT 2017, India 2017
- International Conference on Control, Electronics, and Computer Technology - ICCECT 2017, Malaysia 2017
- Australasian Conference on Information Systems - ACIS, New Zealand 2019
- American Conference on Information Systems - AMCIS, USA 2020
- Asia-Pacific Software Engineering Conference - APSEC, Taiwan 2021
- Kafka and Terraform Meetup - Confluent, New Zealand 2023
- Geekle- World Global React Conference Multiple (Latest in 2023)