POUYA ATAEI

Software Engineer & Computer Scientist

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🧠 Precursor

This identification is merely the idea of myself to provide with specious and precarious sense of permanence. For this idea is relatively fixed, being based upon carefully selected memories of my past, which have a preserved and fixed character. Social conventions therefore, encouraged me to form this idea of myself with equally abstract and symbolic roles and stereotypes

🤚 What I have to offer?

A passionate software engineer with 10+ years experience developing robust code with stress on efficiency, reusability and scalability. I have held responsible positions in a number of companies specialising in software as a Software Engineer, Tech Lead, Lead Architect, Researcher and Teacher. I constantly perceive the multitudes of complexity within the simplicites and I'm always looking at things through the prism of creativity.

🤝 What I'm looking for?

- Company with a vibrant and positive environment.
- Direct engineering hands-on involvement.
- Time and opportunity to learn and apply emerging technologies.
- Friends to build a good products with.
- Work hard, but not at the weekends.

</> Skills

Skill	Level	Skill	Level
Javascript/Typescript	●●●●◐	HTLM5 & CSS3	●●●●◐
Golang	●●●◐○	Kubernetes/Docker	●●●●○
Rust	●●●○○	Linux/Bash/Awk	●●●●○
PHP	●●●◐○	Node/Bun/Deno	●●●●◐
C#/Java	●●●◐○	SQL/NoSql	●●●●○
C/C++	●●●○○	Python	●●●●○
Software Architecture	●●●●◐	Data Structures & Algorithms	●●●●○
Kafka/Redpanda	●●●●○	Design Patterns	●●●●◐
Qualitative/Quantitative Research	●●●●◐	Cloud Computing	●●●●○
Distributed Systems	●●●●○	Mathematics	●●●●◐

💼 Work Experience

Lead Development Architect   Sep 2021 – Current
Auckland, New Zealand

- Stood responsible as one of the company's lead architects, taking part in critical technological decissions across different regions

- Planned, initiated and implemented a distributed data layer to provide with a delcarative client-driven API.
- Worked on an event-driven architecture using Kafka, deployed and tested an archetype with consultants from Confluent

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Tech Lead
Jun 2021 – Sep 2021
Auckland, New Zealand

- Stood responsible as one of the company's lead architects, taking part in critical technological decissions across different regions
- Planned, initiated and implemented a distributed data layer to provide with a delcarative client-driven API.
- Worked on an event-driven architecture using Kafka, deployed and tested an archetype with consultants from Confluent
- Took part in many feature development, technical debt management, and incident management

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Senior Fullstack Developer
Jul 2020 – Jun 2021
Auckland, New Zealand

- Initially hired as a senior frontend developer, but soon turned into frontend tech lead and stood accountable for all Ezyvet frontend applications
- Constantly injected team with best practice, introduced new technologies and took part in complex feature development or refactoring
- Planned and initiated a grand refactor, improved modifiability, performance and security by factor of 5
- Interviewed, onboarded and trained Ezyvet new employees

Fullstack Developer
Feb 2020 – Jul 2020
Auckland, New Zealand

- Disptached to Vodafone to embark on the development of new E-shop.
- Initially joined as a frontend-developer, but I do take parts in CMS development, backend development as well.
- Extensive involvement in checkout pages, cart validation, products page, component development, SEO, analytics, UI testing, end to end testing and integration development.
- Work day-to-day with various stakeholders either on development of new concepts, or removing bugs and defects.

Frontend Engineer
Jun 2019– Feb 2020
Auckland, New Zealand

- Responsible for the migration of three new websites from Wordpress to Gatsby, React, Contentful and Node, handling 900 WordPress blogs, with attention to SEO schema and markups
- Responsible for optimizing current WordPress websites
- Developing a cross-browser compatible and responsive web application that is partially dynamic and mostly static
- Handled concurrency among API calls and updating prices based on received prices, names, descriptions, etc
- Helped the company with a better SEO strategy
- Took parts in UI/UX design
- Used emerging technologies in both frontend and backend, making the application blazing fast!
- Implementation of a polyglot persistence to reach more efficiency and scalability.

Founder, Lead Developer
Jun 2019– Feb 2020
Tehran, Iran

- Implemented a SEO strategy that made our website stand on average position of 8.5 with CTR rate of 6.5
- Led a team of 3 people to lunch the early version of our website's AMP version that increased traffic by 70$
- Teaching variety of different programming languages
- Handling most of companies major operations such as marketing, contents, administration, student handling, system developments, and orchestrations

- Developed, maintained, and updated pouyaraveshan.org on regular basis, providing a pleasant user graphical interface, alongside a compact engineering.
- Deployed and configured company's learning management system to both provide an ultimate experience to the clients and to automate various gigantic processes within the organization.
- Responsible for spearheading teams that handled the software development life cycle

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Full Stack Developer   June 2015– Nov 2016
                                                                               Bandar Sri Permaisuri, Malaysia

- Friendly place with variety of different projects to dig in through, from front-end developments to e-commerce, customized, and exclusive systems.
- Decreased rework by 22% and costs by 15%.
- Consistently received high user experience scores for all web development projects
- Increased projects performance to stand at least 95% on Google's Pagespeed
- Prototyped an average of 25 new product features per year.
- One of my sites received a 2015 Malaysia website awar for UI/UX and Structure.
- Extensive involvement in development, maintenance, and deployment of projects
- Working with development team to identify user needs, use cases, and metrics to focus priorities and prepare documentation.
- Analysis and studies of web based systems to clear out defects and possible breaches, and to improve performance and security.
- Creation of graphic contents and EDM's is another process that I took part in.
- Responsible for presenting finalized projects, digging through every and each functionality in a friendly manner.
- Interviewing candidates to assess their knowledge toward computer science and software programming.

Full Stack Developer   May 2015– Nov 2016
                                                                                           Tehran, Iran

- Implemented a SEO strategy that made our website stand on average position of 8.5 with CTR rate of 6.5
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Workshop Assistant, Python Developer   Feb 2015– May 2015
                                                                                           Tehran, Iran

- Internship for duration of 3 months, with given opportunity to explore and visit various universities in Kuala Lumpur, by providing Python, NOsql, Cloud, and Web Development workshops.
- Responsible for debugging and fixing any problems that clients may face during workshop sessions.
- Took a part in technical writing for company's project.
- Contributed in development of company's loyalty campaign platform
- Besides, have been involved in positive and productive events teaching kids programming using both plugged and unplugged approaches.

Education

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

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

📘 Books

- Ataei, P. [Pouya]. (2017). *The nexus methodology: A trenchant approach toward big data*. LAP LAMBERT Academic Publishing. Retrieved from https://www.amazon.com/Nexus-Methodology-Trenchant-Approach-Toward/dp/3659881392

📄 Journal Articles

- Ataei, P. [Pouya], & Staegemann, D. (2023). Application of microservices patterns to big data systems. *Journal of Big Data*, *10*(1), 1–49.
- Ataei, P. [Pouya], & Litchfield, A. [Alan]. (2022). The state of big data reference architectures: A systematic literature review. *IEEE Access*.
- Rada, B. B., Ataeib, P., Khakbizc, Y., & Akbarzadehd, N. (2017). The hype of emerging technologies: Big data as a service. *Int. J. Control Theory Appl*, *9*(43), 1–18.
- Bashari Rad, B., Akbarzadeh, N., Ataei, P., & Khakbiz, Y. (2016). Security and privacy challenges in big data era. *International Journal of Control Theory and Applications*, *9*(43), 437–448.

👥 Conference Proceedings

- Staegemann, D., Ataei, P., Lautenschläger, E., Pohl, M., Haertel, C., Daase, C., … Turowski, K. (2024). An overview on testing big data applications. In *Proceedings of ninth international congress on information and communication technology*, Springer.
- Ataei, P. [Pouya], & Litchfield, A. [Alan]. (2023). Towards a domain-driven distributed reference architecture for big data systems. In *Amcis 2023*.
- Ataei, P. [P.], & Litchfield, A. [A.]. (2021, December). Neomycelia: A software reference architecturefor big data systems. In *2021 28th asia-pacific software engineering conference (apsec)* (pp. 452–462). doi:10.1109/APSEC53868. 2021.00052
- Ataei, P. [Pouya], & Litchfield, A. [Andrew]. (2020). Big data reference architectures: A systematic literature review. In *2020 31st australasian conference on information systems (acis)* (pp. 1–11). IEEE. doi:10.5130/acis2020.bf
- Rad, B. B., & Ataei, P. [Pouya]. (2017a). Evaluating major issues regarding reliability management for cloud-based applications. (Vol. 17, p. 168).
- Rad, B. B., & Ataei, P. [Pouya]. (2017b). The big data ecosystem and its environs. (Vol. 17, p. 38).