Payman Ahmadpour

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VR software engineer with expertise in optimization and performance, transitioning into backend and infrastructure development. Proven leadership in delivering impactful solutions, including leading a team to develop training software that reduced training accidents by over 90%. Adaptable and resourceful, with experience quickly upskilling, such as learning React on short notice to build internal video archival tools. Seeking to leverage my technical expertise and leadership to drive innovation and long-term value for a forward-looking company. Open to relocation and fully flexible.

Professional Experience

VR Engineer   **Sept 2021 - Jan 2025**
Applied Medical

- Led a small team to develop VR training software that reduced training costs by 35% and cut training accidents by over 90% by reinforcing fundamentals prior to live training
- Developed core infrastructure for a VR training environment, reducing development time by 60% through streamlined workflows and widely reusable functions
- Created realistic training scenarios with 95% accuracy by conducting on-site task observations and using them as references during development
- Enhanced the outreach team's tools with data analysis to track client product interests, boosting engagement by 40% across social media and tradeshows

Education

University of California, Irvine   **Irvine, CA**
Bachelor of Sciences in Computer Science

- Data structures, algorithms, database systems, and object-oriented programming

Projects

Tsugou.jp - Next-Generation Japanese Learning Tool   **Apr - Aug 2025**
Solo

- Originally written in Python, but converting it to Golang helped increase throughput by around 11x and reduced response time by 12x
- Every aspect of the app is containerized, which allows it to easily be horizontally scaled depending on user traffic leading to reduced hosting costs
- Incorporated Valkey for query and user session caching, accelerating search times by over 100%
  - https://tsugou.kuraiji.me/

Skills

Programming Languages: C++, C#, Golang, Typescript, Python, SQL
Full Stack Development: HTML, CSS, React, Next.JS, Tailwind CSS, PostgreSQL, Redis/Valkey
Others: Git, Docker, Linux Server, AWS, GCP, Terraform, Cloud Architecture and Infrastructure

Certificates

AWS Certified Solutions Architect – Associate   **February 2025**
Amazon Web Services

- https://www.credly.com/badges/73699102-0cdf-4bb4-859b-72cf8ddc6a7a