

**Awon Thapaliya**

**Software Engineer**

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## Professional Summary

Software Engineer with over 8 years of experience in platform development, specialising in API development, infrastructure design, and cloud solutions. Proven expertise in key platform functionalities, including onboarding, account creation, transaction processing, and invoicing. A former Lead Software Engineer at Fusemachines, instrumental in democratising AI by developing chatbots, classification systems, and cloud infrastructure for U.S.-based clients. Passionate about leveraging innovative technologies to solve complex problems.

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## Skills

**Programming Languages:** Java, Python, C#, Bash **Frontend Frameworks:** React

**Backend Frameworks:** Spring Boot, Entity Framework

**Databases:** PostgreSQL, MongoDB, Elasticsearch, Redis **Cloud & DevOps:** AWS (Lambda, EC2, RDS, Cognito), Terraform, Docker, CircleCI, Serverless, ELK Stack

**Development Practices:** API Development, Automated Testing, CI/CD

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## Professional Experience

**Senior Software Engineer - *VIDA.AI – Australia***

*April 2025 – Present*

- Design and implement the core infrastructure to support the company's foundational platform.
- Build secure, scalable APIs to integrate with external systems, including preparation for ATO connectivity.
- Establish the technology stack and architectural patterns to enable long-term scalability and maintainability.
- Lead security initiatives to ensure compliance with industry standards and protect sensitive data.
- Conduct stress and performance testing to identify system limits and guide infrastructure improvements.
- Maintain and enhance system monitoring to ensure platform reliability, visibility, and proactive issue resolution.

- Continuously improve platform functionality, addressing technical debt and optimising system performance.
- Collaborate with leadership to envision and plan the future-state architecture to support company growth.

### **Senior Software Engineer - *Parpera – Sydney, Australia***

*Mar 2021 – Jan 2025*

- Designed and implemented critical platform features, including onboarding, account creation, transaction processing, and invoicing.
- Architected and deployed secure, scalable cloud infrastructure, ensuring compliance with regulatory requirements for data security and system reliability.
- Operated and maintained the end-to-end Parpera platform, ensuring optimal performance and seamless user experiences.
- Collaborated with cross-functional teams and banking partners to deliver innovative solutions tailored to complex financial challenges.
- Monitored production systems, resolved high-priority issues, and provided comprehensive technical reports to stakeholders.
- Acted as the sole backend engineer on the team, adapting to evolving project requirements and learning new skills to meet challenges.

### **Senior Software Engineer - *Fusemachines – Kathmandu, Nepal***

*Jan 2020 – Mar 2021*

- Led multiple projects and built production-level products for clients, leveraging open-source and custom platforms.
- Developed and optimised well-documented source code, facilitating easy maintenance and scaling.
- Collaborated with cross-functional teams to design and implement features, ensuring alignment with client goals and technical specifications.
- Analysed complex problems, delegated tasks effectively, and guided team members to ensure seamless project execution.
- Produced clean, optimised, and well-documented code, enabling easy maintenance and scalability.
- Developed and documented software tools for use by engineers and creative teams, enhancing productivity and workflow efficiency.
- Debugged and enhanced existing codebases, refining features for optimal performance and reliability.

## **Software Engineer - *Fusemachines – Kathmandu, Nepal***

*Jan 2016 – Dec 2019*

- Designed, developed, and debugged user-centric applications tailored to specific client requirements, ensuring robust functionality and performance.
  - Delivered high-quality applications within tight deadlines, maintaining a strong focus on industry standards and project requirements.
  - Provided technical support and effective communication to project teams, facilitating smooth collaboration and issue resolution.
  - Demonstrated creative, technical, and analytical expertise in application development, contributing to innovative solutions.
  - Participated in preliminary planning sessions and advised stakeholders on application design and development strategies.
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## **Education**

**NMAM Institute of Technology – Karnataka, India**

*Bachelor of Engineering in Computer Science | 2011 – 2015*

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## **Professional Development**

**Engineering Chapter Member – Folklore Ventures, Sydney, Australia**

**Training in Natural Language Processing and Chatbot Integration – Fusemachines, Kathmandu**

**Training on Product Development with Adjunct Professor Sameer Maskey at Columbia University – Fusemachines, New York**