Senior Software Engineer (Web Backend Focus)

OpenLearning is a leading Australian online education platform looking for a software engineer to join their Sydney development team. We are looking for...

A passion for developing a world-class education platform, an ability to thrive in a fast paced environment, and excellent team and communication skills, including the ability to:

- quickly communicate complex ideas around a technical topic, and disperse knowledge to a highly skilled team
- discuss, design, and provide feedback on solutions and roadmaps with the team, and collaboratively plan, motivate, and deliver
- show a passion for teaching, learning, experimentation, and making a social impact
- encourage a kind/positive/playful attitude that embraces change, agility, and diversity within teams and working environments

Bachelors, Masters, or PhD in computer science/software engineering, a related technical field or similar experience, with a solid understanding of software engineering principles and practices, including:

- code refactoring, design patterns, and continuous integration
- unit testing, and defining test cases for system and user testing
- core security concerns within a typical web/mobile application (password hashing, SSL/TLS, encryption at rest, XSS, XSRF, code injection, access control)
- identifying areas for innovation with core technologies, systems, and frameworks used in all areas of software development
- researching available options, consulting with fellow technical and product team members, and incorporating enhancements into the design and development of the product

Extensive experience with a prominent web application (server-side) language - preferably both Python and NodeJS (Typescript) - as well as familiarity with front-end development technologies (e.g. React and Javascript browser technologies).
Excellent knowledge of both RDBMSs and MongoDB, including:

- all aspects of configuration, best practices, and troubleshooting
- schema design, performance tuning, query optimization, & index tuning
- backup solutions
- replica set and sharding topologies
- migration of code and data between SQL and NoSQL technologies

Experience building VM-based, containerised, and serverless solutions using public cloud offerings such as Azure or AWS.

Extensive experience in RESTful API design, development, and integration technologies including:

- JWTs, and session/identity management
- OAuth2.0, OpenID Connect, or SAML

Not essential, but advantageous experience includes:

- developing with education technologies such as xAPI and LTI 1.3 Advantage
- Ansible (or other configuration management tools)
- serverless Azure technologies, such as Azure Functions (& durable functions), Event Hubs, Azure SignalR, Stream Analytics
- knowledge of container technologies (Docker, Kubernetes)
- GraphQL/Apollo
- CQRS, event-driven, and event-sourcing architectures

Note: during the Covid-19 situation all our team members are working from home. This position will be managed remotely (until further notice).