

Member of Technical Staff

Aether Application Development

About the Aether Project (<http://aetherproject.org>)

About the role

The role is for a full stack application developer contributing to the Aether project. Aether runs as a managed service (PaaS) providing mobile connectivity at the edge of the network - enabling enterprises to build IoT and Edge Cloud solutions in pursuit of Industry 4.0 automation. Read more about Aether in the [Aether white paper](#).

- It is a hands-on development role, spending most time developing software
- You will build expertise across the Aether code base working across the codebase taking on development where required
- The role spans architecture, development and unit testing - it is a senior level role with leadership opportunity

The ideal person has developed expertise in the following areas (with examples of relevant technologies):

Web Service Development. Experience developing web application backends, preferably in Go. Relevant experience in similar languages and Web frameworks (Django, Flask, Ruby on Rails, etc) that is easily transferable to languages such as Go may also be sufficient. Use of common database tools (Postgres, MySQL, NoSQL, Cassandra, etc) and modeling languages (Yang, SQL) for state management of the web service. Experience with REST or gRPC APIs for communication between the backend and frontend, using standards and tools such as OpenConfig, NETCONF, OpenAPI, and Swagger.

Web Front-End Development. Experience developing browser-based web applications using languages such as Typescript or Javascript. Experience with common frameworks in these languages, such as Angular, Material, React, etc.

Cloud Native Application Development and Deployment. Experience containerizing applications with tools such as Docker, and deploying those containers with tools such as Helm and Kubernetes. Understanding of the lifecycle of an application and the processes necessary to maintain long-term service availability. Use of tools such as Rancher, Terraform, Jenkins, and Ansible to automate cloud deployment.

Software Engineering. Experience with testing and assuring code quality. Use of unit tests to ensure code correctness. Use of testing frameworks such as Robot to perform functional tests of deployed components.

- Microservice architecture - understanding how to create scalable applications and APIs that are secure and adaptable
- Strong data modeling and API design
- Strong software design methodology and proven development skills (has taken software from concept into production)
- Prior agile development experience
- Prior startup experience is helpful

About the Open Networking Foundation (<http://opennetworking.org>)

The Open Networking Foundation is in Menlo Park, CA. We are a non-profit operator led consortium driving transformation of network infrastructure and operator/supply chain business models. We are an open, collaborative, community of communities. The ONF serves as the umbrella for a number of projects building solutions by leveraging network disaggregation, white box economics, open source software and software defined standards to revolutionize the carrier industry.

We are building Open Source Tools and Platforms to *accelerate* the adoption of Software Defined Networking (SDN), Cloud infrastructures, Virtualization, and Network Functions Virtualization (NFV). We are an Open Source *development* organization with strong research, product and innovation background.

We are looking for people who are passionate about learning and who are open minded about the way cloud infrastructure and networks are built. We want people with a strong desire to implement their ideas and see those implementations used in real networks. Have you built and delivered products for commercial companies? Have you done applied research in cloud infrastructures and networks? Have you contributed to Open Source projects?

What is life like on a daily basis at ONF? We work closely with operators, partner engineers, and executives leading change in the networking industry. We develop with agile methods. We challenge each other, we brainstorm, we write code, we create new implementations that have *real impact*. We collaborate closely with commercial and academic organizations. We have fun and we make a difference.