



WWF *for a living planet*[®]

WWF Singapore
354 Tanglin Road #02-11
Tanglin International Centre
Singapore 247672

Tel: (65) 6730 8100
Fax: (65) 6730 8122
info@wwf.sg
wwf.sg

JOB DESCRIPTION

Position title: Full Stack NodeJS Developer (Supply Chain Traceability)

Reports to: Chief, Strategic Communication and External Relations

Start Date: Immediately

Duration: 10 months contract

Technology is rapidly developing, and its potential use cases for conservation are immense. Are you interested in addressing important conservation issues through technology? Do you have strong proficiency with JavaScript and knowledge of NodeJS? If yes, we are looking for someone experienced and passionate to support a tech-focused solution to help put a stop to deforestation!

Major Functions:

Unsustainable palm oil supply chains in rural Indonesia are fraught with illegality and deforestation. We are leading a technology-focused initiative to end illegal deforestation as efficiently as possible in two of the world's most important forests for biodiversity – Tesso Nilo National Park and Bukit Tigapuluh in central Sumatra, Indonesia.

Together with multiple palm oil experts based in WWF-Singapore and WWF-Indonesia, you will support this fast-paced, high-impact initiative and work in a team of five. In this project, you will help us change the way palm oil supply chains are managed through the use of data and technology. Our end goal is to end illegal deforestation in the palm oil industry. The team will be based in Singapore, and will require frequent travels to Sumatra.

Major Duties and Responsibilities:

- Integration of user-facing elements developed by front-end developers with server side logic
- Writing reusable, testable, and efficient code
- Design and implementation of low-latency, high-availability, and performant applications
- Implementation of security and data protection
- Design and develop mapping tools
- Integration of data storage solutions

Required qualifications:

- 5 years of relevant experience
- Strong proficiency with JavaScript
- Knowledge of Node.js and frameworks available for it
- Understanding the nature of asynchronous programming and its quirks and workarounds
- User authentication and authorization between multiple systems, servers, and environments
- Integration of multiple data sources and databases into one system
- Understanding differences between multiple delivery platforms, such as mobile vs. desktop, and optimizing output to match the specific platform
- Creating database schemas that represent and support business processes
- Basic understanding of front-end technologies, such as HTML5, and CSS3

- Experience writing and running automated tests including, but not limited to, integration and unit
- Experience debugging Node.js, profiling memory and CPU usage
- Experience deploying Node.js into production and scaling applications beyond single instances
- Experience in creating and deploying to cloud based applications like GCP, AWS

You need to:

- Be a self-starter with high level of drive
- Be able to work independently
- Have great organisational skills, attention and dedication to details
- Experience with working in small teams
- The ambition to develop well written and designed software
- Be comfortable with frequent travel
- Adhere to WWF's values, which are: Knowledgeable, Optimistic, Determined and Engaging

This job description covers the main tasks. Other tasks may be assigned as necessary according to organisational needs.

Interested candidates should email a CV and a cover letter with the title "Full stack NodeJS Developer (Supply Chain Traceability)" to hr@wwf.sg.
Deadline for applications: 31 October 2018

About WWF-Singapore

WWF is one of the world's largest and most respected independent conservation organisations. Our mission is to stop the degradation of the earth's natural environment and to build a future in which humans live in harmony with nature.

As one of WWF's international hubs, the WWF-Singapore office supports a global network spanning over 100 countries. We help protect Singapore's essential needs through the actions of individuals, businesses and governments in the region. To meet key conservation goals, we address issues such as deforestation, haze pollution, food security, sustainable consumption and illegal wildlife trade.