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# JavaScript Virtual Machine Compiler Engineer

Santa Clara Valley (Cupertino), California, United States Software and Services

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### Summary

Posted: Oct 4, 2022 Weekly Hours: 40 Role Number:200431126 The WebKit JavaScript Virtual Machine is responsible for executing the JavaScript and WebAssembly code found in web pages. It uses type inference, dynamic compilation, and sophisticated compilation optimizations to turn JavaScript programs into efficient machine code on x86 and ARM64. JavaScript Virtual Machine engineers work on all aspects of the compilation pipeline, including the parser and lexical analysis, the profile-guided speculative compiler, and the optimizing compiler backend. They also own and maintain the language runtime, the garbage collector, and the JavaScriptCore API for native apps.

# **Key Qualifications**

- Detailed knowledge of C and C++
- · Excellent debugging, critical thinking, and communication skills
- Detailed understanding of data structures and algorithms
- · Experience with compilers, parsers, interpreters, and garbage collectors

## Description

As a JavaScript Virtual Machine Engineer you will work as a generalist in these areas, diagnosing and fixing performance, stability, standards compliance, and compatibility issues, implementing new language features, and supporting browser and non-browser JavaScript clients.

# Education & Experience

BS in computer science or equivalent

# Additional Requirements

Experience with compilers, parsers, interpreters, and garbage collectors

Experience with assembly-level programming

Detailed knowledge of the JavaScript language

Detailed knowledge of the WebAssembly language

Experience with performance analysis

Experience with open source software development

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