

# Sanjoy Das

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*Software Engineer*

## Summary

Software engineer particularly interested in the design and implementation of compilers and virtual machines.

## Work Experience

August 2013–  
Current **Software Engineer, JVM** | Azul Systems | Sunnyvale, California  
Compiler engineer on the JVM team.

May 2012–July 2012 **Software Engineering Intern** | Google | München, Germany  
I interned on the **V8** / **Chrome** team and worked on moving some phases of the optimizing Javascript compiler's (Crankshaft's) pipeline to a dedicated compiler thread.

July 2011–December 2011 **Intern (Off-site)** | Igalia  
I worked on **gdb**, implementing a new, simpler debug info protocol for JIT compilers.

May 2011–September 2011 **Google Summer of Code Student** | The LLVM Compiler Infrastructure  
I implemented support for **segmented stacks** in **llvm** for x86. This allows llvm generated code to incrementally allocate the native thread stack at runtime.

## Skills & Expertise

### Skills

My core competencies are virtual machines and compilers. Besides that I have dabbled in type-theory and programming language semantics. I'm most comfortable with x86 linux systems.

### Programming Languages

Most of the production code I've written is in **C++** and **C**. I have used **Haskell** in non-trivial personal projects and am familiar with **Java**, **Agda** and **Python**.

## Education

2008–2013 **Master of Science, Bachelor of Science** | Indian Institute of Technology Kharagpur  
Mathematics & Computing