Sanjoy Das

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) 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. I am familiar with **Java** and **Python**.

▬▬ Education

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

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