Sankha Narayan Guria

Software Developer

Education

2011–2015 **Bachelor of Technology**, Indian Institute of Technology Jodhpur, *GPA − 8.26/10.0*.
Systems Science

Experience

June
2015–Present
Software Developer, *BrowserStack*, Mumbai, India.
Part of the Automate team at BrowserStack. Working on scaling up our own custom made Selenium Hub to run around 150,000 sessions per day as well as improving browsers and platforms to run at more than 99.7% stability.

May
2014–July
2014
Research Intern, *University of Freiburg*, Germany.
Worked to develop JavaScript language semantics with Transparent Proxies and defined an object capability model over it. The developed system was proved to work with real world benchmarks and the propositions were implemented on the SpiderMonkey VM.

June
2013–Sept
2013
Google Summer of Code Student, *Mozilla*.
Worked with Mozilla to put in place infrastructure to allow autosuggestion of frequently used search engines in Firefox, by heuristically analyzing the browsing and form submission behaviour of the user.

May
2013–July
2013
Software Engineering Intern, *Scrollback*, Bangalore, India.
Worked on building Scrollback.io a product that brings back live forums and community IRC chat to the web, with additional features like automatically grouping past conversations based on topic. JavaScript and Node.js were the platforms of choice.

Publications

2015 **Transparent Object Proxies in JavaScript**, *M. Keil, S. N. Guria, A. Schlegel, M. Geffken, P. Thiemann*, The European Conference on Object-Oriented Programming, ECOOP 2015.

Skills & Expertise

Skills.
I contribute to open-source and work on various side projects in my past time. I used to regularly contribute to the Mozilla project especially to the SpiderMonkey Javascript Engine including some features for ECMAScript 6 Standard and the JIT.

I have awareness of low-level data manipulation and have dabbled in personal projects that deal with Web APIs, SIMD instructions, toy JIT compilers and asynchronous I/O APIs.

Most of my work is open-sourced at *github.com/sankha93*.

Programming Languages.
I am proficient with C, C++ and JavaScript. I am also familiar with Rust and Python and have used it for some personal projects.

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