Nikhil Singh Shekhawat

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Education

University of Central Florida (UCF) — Orlando, FL, USA
Master of Science, Computer Science • GPA: 3.88/4.0 — *Dec 2015*

Indraprastha Institute of Technology, Delhi (IIIT Delhi) — New Delhi, India
Bachelor of Technology, Computer Science Engineering • GPA: 7.37/10 — *May,2012*

Skills

Programming Languages: Java, Swift, JavaScript, C/C++

Tools and Technologies: Android, iOS, AWS, Swagger, CUDA, AngularJS, NodeJS, Ethereum

Employment

Mobile Solution Engineer, Royal Bank of Canada Innovation Lab — *Oct, 2016 - Present*

- iOS, AWS - Reinventing banking for US through online/mobile banking that facilitates account creation, money management including and personalized assistance where I developed the MVC stack for sending, managing and receiving money. I also hosted and managed the AWS stack(APIGateway,Cognito,EC2).
- Android, iOS, AWS - RBC's initiative to acquire a larger auto-finance customer pool, that allows the user to check car values and recalls. Wrote the authentication and user registration integrating into cognito.

Proof of concept projects:

- Android: Mintchip a VISA like payment network to facilitate payments through the RBC wallet. I integrated this capability in the RBC Android wallet that would let then let users pay using mintchip.
- Skuchain/Solidity: Letter of Credit resolution platforms for merchant trade finance. Developed ethereum contracts that would mimic multi-signature asset management.

Software Engineer Intern, Royal Bank of Canada Innovation Lab — *May,2015 - Aug 16*

- HTML, CSS, Javascript - Developed and deployed a new way of enrolling into mobile banking for RBC customers, with responsive UI now available to 12 Million users in IOS and Android Wallet across Canada. A responsive web-page that enables RBC mobile users to enrol themselves into using the mobile application. The client enters valid credentials, verifies their identity using phone or email options through which they recieve a verification code, after entering it, they are all set for mobile banking.
- Android, Java - Auto signin using fingerprint authentication to RBC's android wallet.(Google IO 2015)

Research Assistant, QMAS Lab UCF — *Sep,2014 - Jun,2015*

- C, C++ - Developed a CUDA library for simulating memristor crossbars on massively parallel GPGPUs. Heuristics to improve the run-time of a SAT problem, determining parameters to improve the results.

Assistant Software Engineer, EyeBridge — *Aug,2012 - Jun,2014*

- HTML, CSS, Javascript - Built the front end for a domain name selling website "BrandsnDomains.com" and a social networking site for gamers "pro-gs.com".

Software Engineer Intern, Samsung R&D — *May,2011 - July,2011*

- HTML, CSS, Javascript - The only programmer to build 6 Applications for the Samsung Smart TV over a short span of two months.

Research

The memristor crossbar simulator
Nikhil Singh Shekhawat and Dr. Sumit Kumar Jha, Professor, UCF — *Aug 2014 - Jan 2015*
"AVEGA: The memristor crossbar simulator", poster presented at: GTC-2015

Extending parallel programming education beyond the von Neumann architecture
Nikhil Singh Shekhawat and Dr. Sumit Kumar Jha, Professor, UCF — *Dec 2014 - April 2015*
A description language was added to AVEGA for it to be able to simulate memristor crossbars based on the user input, poster presented at EduPar-2015