

Nikhil Singh Shekhawat

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407-427-1438 • nikhilsshekhawat@gmail.com • nikhilshekhawat.com

Education

University of Central Florida (UCF)

Master of Science, Computer Science • GPA: 3.88/4.0

ORLANDO, FL, USA

Dec 2015

Indraprastha Institute of Technology, Delhi (IIIT Delhi)

Bachelor of Technology, Computer Science Engineering • GPA: 7.37/10

NEW DELHI, INDIA

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 creating, money management and personalized assistance. This project was hosted on AWS for transferability, scalability and dynamic resource allocation.
- Android, iOS, AWS - Drive app: RBC's initiative to acquire a larger auto-finance customer pool, that allows the user to check car values and recalls. Merchants have the ability to send targeted offers/articles.
- Proof of concept projects: C, UPPAAL - Analyzed and tested multiple Blockchain technologies for transaction throughput, vulnerabilities using formal model checking. Android: Mintchip a payment network. Skuchain/Solidity: A letter of Credit resolution platforms for trade finance.

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 receive 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.

Software Engineer Intern, Composite Software Solutions

Nov 2010 - Jan 2011

- HTML, CSS, Javascript - Built a search engine that queried protein structures and displayed a graph for every obtainable protein match. Used Apache Lucene for indexing and querying, and Cytoscape for displaying proteins as nodes in a graph.
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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