Nikhil Singh Shekhawat

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Education

UCF, 2015	Master of Science, Computer Science	GPA: 3.88/4.0
IIIT-D, 2012	Bachelor of Tech., Computer Science	GPA: 7.37/10

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 - A banking app for US online/mobile banking customers that facilitates account creation, money management and personalized assistance. I developed the MVC stack for sending, managing and receiving money comprising of a client side SDK that could be ported across projects along with the UI for our first project. Contributed to the backend development by hosting and managing the AWS stack(APIGateway,Cognito,Elastic Beanstalk).

  • Android, iOS, AWS - RBC's initiative to acquire a larger auto-finance customer pool, that allows the user to check car values and recalls. I wrote the user-authentication and user-registration part of the app that integrated into AWS cognito. I was also involved in bug fixes for both the android and iOS apps.

Proof of concept projects:
  • Android: Mintchip a VISA like payment network to facilitate payments through the RBC wallet. 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. This web-tool enables RBC mobile users to self-enrol into using the mobile application. The client enters valid credentials, verifies their identity using phone or email and they are all set for mobile banking.
  • Android, Java - Added Auto signin using fingerprint authentication to RBC's android wallet as a proof of concept, this product was showcased at 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*
  Developed a new description language to AVEGA for it to be able to simulate memristor crossbars based on the user input, poster presented at EduPar-2015