
Siddharth Gupta

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EDUCATION

Master of Science, Computer Science: 3.70 GPA

Aug '16 - May '18

University of Florida

Distributed Operating Systems – A, Mobile Computing – A, Advanced Databases – A, Wireless Ad-hoc Networks – A, Natural User Interaction – A

Bachelor of Engineering, Information Technology: First Class

Aug '09 - May '13

University of Mumbai

TECHNICAL SKILLS

Systems & Applications: Java, C++, C#

Web Development: JavaScript - (NodeJS, JQuery, React), HTML5, CSS - *Bootstrap 4*, *RESTful API's*

Android Development: Java, Kotlin, Android SDK, Maps 2.0 API, Speech API

Databases: MongoDB, PostgreSQL, MySQL

Cloud Services: AWS, MS Azure, Heroku

Protocols: TCP, UDP, MQTT

CI/CD: Git, Docker, TeamCity

Message Queue: Kafka

WORK EXPERIENCE

- **Citrix**, Fort Lauderdale, FL – **Senior Software Engineer**

May '18 - Today

Productized the prime feature of Windows Ink Redirection in virtual desktops & apps. Developed smart automation tools to capture, inject, and compare pen movements. Researched & implemented the PoC for WIA scanner virtualization. Improved COM port redirection by 72% that led to a new customer sign up deal of 1.5M \$. Implemented Proxy Auto Configuration support for Browser Content Redirection (BCR) using C#, C++, JavaScript, & ClearScript. Improved BCR script injection timing to get a 50% increase in redirection performance. Won Citrix Hackathon 2019 – 2 Factor Biometric Login.

- **RevNet**, Gainesville, FL – **Full Stack Developer Intern**

May '17 - Aug '17

Built a Docker, Git, AWS and, Jenkins based code deployment system using Python to remotely bulk update the codebase on 1000's of headless Raspberry PI's simultaneously in seconds. Built a kiosk Android app that streamed videos from the cloud storage. Developed the web and mobile site <http://revnet.net> using JavaScript and HTML5.

- **Accenture**, Mumbai - **Software Engineer**

Dec '13 - Jul '15

Java, SAP-ABAP & mobility developer for 3 projects. Coded over 70 custom business requirements for 3 clients. Automated many existing processes that saved more than 500 hours of manual work/yr. Awarded ACE award for Innovative Excellence for optimizing the performance of a business-critical workflow to execute in 11 mins from 6 hours.

- **Mondoboard** Android Application (Off Play Store now) - **Freelancer**

Nov '14 - Mar '15

Developed a popular feature for cyclists to track each other using Location services & Google Maps 2 API. Used PHP & MySQL for server-side programming. It displays each cyclist's location on map, estimates time & distance to other cyclists, builds a cycling route to a cyclist, and records custom routes of each cyclist on the server.

- **Directi**, Mumbai - **Web Solutions Specialist - Intern**

Sep '13 - Dec '13

Built a link directory tool that identified user's role and provided links to tools & resources applicable to that user category. Debugged the product suite and found solutions to various kinds of bugs spanning DNS, Web Hosting, Email Hosting, Website Builder and Digital Certificates.

SELECTED ACADEMIC PROJECTS (More on siddg.eu5.net)

- **iRoam - Intelligent Real-time Observation & Analysis of Movement (1st place, 1000\$ prize by Philips)**

Mar '17 - Apr '17

Converted crutches and walkers into effective IoT devices to optimize rehabilitation for leg injuries and aiding the elderly. Programmed ARM boards to relay force and heart rate readings to the cloud based NodeJS server where I analyzed the data and built an intuitive dashboard using ReactJS for medical practitioners and caretakers of the elderly.

- **KinectEd Living (Best User Interaction)**

Feb '17 - Apr '17

An automated home application that allows multimodal interaction using Kinect's gesture and speech recognition capability to control devices in a living space. The gesture aids in identification of the device whereas the speech command is responsible for changing the state of the device. Used: - C#, Kinect 2.0, Kinect SDK, MS Speech SDK, Arduino.

- **Cloud-Edge-Device Architecture based Internet of Things Platform (Best Course Project – Distributed OS)**

Nov '16 - Dec '16

Developed a Cloud-Edge-Device architecture based highly scalable IoT platform. Developed a high-level C++ driver for Xinu OS to support the cloud and enable discovery. Developed RESTful APIs using NodeJS and designed the web and Android UI. My work facilitated energy efficient access to sensor data through push/pull queries. Implemented MQTT-SN in Xinu.

- **Weather Sensor Network for Disease Prediction in High Value Crops (Best Project – Wireless Ad-hoc N/W)**

Sep '16 - Dec '16

Employed temperature, wind speed, and relative humidity sensors to predict onset of diseases in crops so that the farmer could spray pesticides only when prompted to via email notifications, resulting in tremendous cost savings. The sensor data is presented in a graphical view to the farmers either on web or an Android app. Used: - Java, C++, NodeJS, JavaScript