

Archit Goyal

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EDUCATION

New York University

Masters of Science in Computer Science

Courses: Cloud Computing, Operating Systems, Programming with Big Data, Design and Analysis of Algorithms, Information Visualization

Sep 2017 – Dec 2018

GPA: 3.86/4

Manipal University, India

Bachelor of Technology in Computer Science

Jul 2011 – May 2015

GPA: 8.1/10

PROFESSIONAL EXPERIENCE

Technology Development Intern, Barclays, New York

Jun – Aug 2018

- Developed an automation tool for Fixed Income MIFID II stress testing based on the RFQ sent and received.
- Automated graphs generation based on the latency and number of RFQ's sent and received per second for performance testing.
- Technologies: Bash Scripting, Java, TeamCity, JFreeChart, KDB Database, Apache Maven, Apache JMeter

Software Developer, Itrust Center for Research in Cyber Security, Singapore

Nov 2016 – Aug 2017

- Implemented a private access control and controllable security system for D2D communications using WiFi-Direct.
- Developed a privacy-preserving attribute-based device discovery and pairing system for Android devices.
- Technologies: Android, Java, SQL, PHP, CSS

Associate Application Engineer, Oracle, India Development Center

Jul 2015 – Oct 2016

- Contributed to feature enhancements of the Primavera P6 Project Portfolio Management Application.
- Developed an automation tool to consolidate all the required binaries across network drive to setup the application.
- Technologies: Java, .NET, C#, SQL, Delphi

Software Development Intern, Oracle, India Development Center

Jan – Jun 2015

- Contributed to the feature and security enhancements of different modules of Primavera P6 Client application.
- Upgraded the Primavera P6 application modules to support latest security protocols like TLS 1.1 and TLS 1.2.
- Technologies: Java, .NET, C#, SQL, Delphi

RELEVANT PROJECTS

Mood Swinger, MLH BostonHack 2018 (Won Best Cloud Hack)

Nov 2018

- Developed a web application to detect the emotion of a veteran and play music to calm down their emotions.
- Machine Learning model was trained for emotion recognition using the IBM Watson Visual Recognition service.
- Technologies: HTML, CSS, Python, JavaScript, IBM Watson Visual Recognition and Storage, Bose API, Spotify API

IIIPill, HackUMass 2018

Oct 2018

- Developed a web application to identify the pill based on the color, size and text of the pill to help the visually impaired people.
- Imprint was extracted using AWS Rekognition and shape and color using OpenCV, Python and analyzed with the NLM database.
- Technologies: Java, Python, JavaScript, AWS, OpenCV, HTML, CSS

Feed a Homeless, MLH HackNYU 2018

March 2018

- Developed a web application to check-in location of homeless people on Google maps and let people within proximity feed them.
- Used Google cloud services to store location and deploy the application.
- Technologies: Node.js, HTML, CSS, Google Cloud SQL, Google App Engine

Restaurant Recommender using AWS

Sep – Nov 2017

- Developed a web application where user uploads a food image and based on the current location a restaurant is recommended.
- Tensor flow model is used to recognize the food item and EatStreet API is used to recommend the API by accessing menu.
- Technologies: EC2, S3, Lambda, API Gateway, RDS, Cognito, EatStreet API

RESEARCH EXPERIENCE

Quantum Contextuality and Cryptography, Summer Internship, CNRS lab, France

May–Jul 2015

- Worked on ways for successful generation of regular finite geometries from their Grothendiecks Dessins denfants.
- Used different secret sharing schemes and quantum coding for encryption and decryption of finite geometries.

Classical and Blind Quantum Computation, Summer Internship, Saitama University, Japan

Jun–Jul 2013

- Modified the Yao's protocol to ease the computation taking into consideration the cost and time complexity.
- Made checks for correctness and consistency and calculated cost for both malicious and semi-honest adversaries.

TECHNICAL SKILLS

Proficient in: Java, C++, C#, Javascript, Node.js, HTML, CSS, PHP, XML, SQL, AWS, Github, Shell Scripting, Rest, JSON, XML, D3.js

Big Data Tools: Spark, Hadoop, MapReduce, Kafka, Elasticsearch, Docker

Familiar with: Python, MongoDB, .Net, Kafka, Pig, NoSQL, Google Cloud SQL, Google Cloud App Engine, Jira

AWARDS AND ADDITIONAL INFORMATION

- Recipient of Charpak Scholarship by French Govt. to pursue summer internship in France. 2014
- Recipient of Kanryu Scholarship to pursue summer internship in Japan. 2013
- Student Delegate for Harvard Project for Asian and International Relations among 180 delegates globally. 2013
- Ranked in the top 1% (amongst 40,000 students) in the Indian National Physics and Astronomy Olympiad. 2010