

# Poornima Muthukumar

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## Academic Qualifications

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### National University of Singapore (NUS)

*B.Eng. in Computer Engineering*

**May, 2014**

### DAV Matriculation Higher Secondary School (2009-10)

*Higher Secondary Education, 98% (State 6<sup>th</sup> Rank)*

(Computer Science: 97%, Mathematics: 100%, Chemistry: 100%)

## Work Experience

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### Microsoft Ireland Research Centre (Dublin)

*Software Engineer, Office Marketplace Experience Team*

**Jan 2015 – Current**

- Developed a platform for Admins to be able to side-load AddIns for office and push them out to users of their organization.
- Worked on the project from the conceptualization phase to the design phase to ultimately releasing the feature in Dogfood and then to Production.

### Goldman Sachs (New York)

*Software Developer, Securities Middle Office Technology*

**July 2014 – October 2014**

- Accepted a full time offer from Goldman Sachs and attended the company wide training for new analysts in New York.
- The training sessions included on-the-job skills including computer languages, capital markets and project management.
- Throughout the training, there were several opportunities to interact with senior leaders, former analysts and other Goldman Sachs employees through learning events, networking receptions and buddy programs.

### Goldman Sachs (Singapore)

*Software Developer Intern, Securities Middle Office Technology*

**May 2013 – July 2013**

- Developed an automated regression testing framework in Java for a trade-processing and confirm-generation system, which improved the testing speed to 30 minutes as compared to the manual one-day process.
- Conceptualized an innovative and feasible proposal for a BYOD (Bring Your Own Device) strategy for GS with five other interns from the technology division.
- Became proficient with a range of GS Technologies from Sec DB, OBS (Object based cloud storage) to Big Data Processing.

## **Bank of America Merrill Lynch (Singapore)**

*Software Developer Intern, Global Markets and Research Technology*

**July 2012 – Dec 2012**

- Developed a multi-threaded Pub/Sub application for the team using the Spring framework in Java.
- Calculated CPU and memory usage using the profiling tool, visualVM, and optimized the code to eliminate bottlenecks before production.
- Application was successfully deployed in production after completing QA and UAT testing, with users ranging from Hong Kong, US and Singapore.

## **Project Work**

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### **Microsoft Hackathon (Finding App Success):**

- Worked with four other Microsoft developers to find out what contributes to the success of the apps on the office store. We used a combination of Big Data and Machine Learning to finally resolve the mystery underlying what exactly increases app downloads. Using this data we can assist developers in writing successful apps, and we can optimize our store to increase total downloads. Our method works for any app store, but we focused on the Office Store, for which we uncovered the six primary determining factors behind app success. The above solution has been submitted to the Patent office.

### **CS2103 (Software Engineering):**

- Designed and coded the GUI for CS2103 Software Engineering. Developed a 'Todo Manager' tool in Java, targeting power users on Windows. Our application **QuickToDo**, secured a place in the [Hall of Fame](#) among 60 other competing projects.

### **CG1103 (Data Structures and Algorithm):**

- Lead a team for creating a Store Management System in C++ in the CG1103 Data Structures and Algorithms module in NUS.

## **Technical Skills**

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**Programming Languages:** C#, Angular.js, Typescript, Java, C ++, C, node.JS, HTML Python, JavaScript and assembly language -8086.

**Operating Systems:** Windows, Linux.

**IDEs:** Microsoft Visual Studio, Eclipse, Vim.

**Version Control Software:** SVN, Mercurial, GitHub.

**Integration Software:** Hudson, Jenkins, TeamCity

**Project Management Tool:** Maven

Proficient in graphic designing using **Photoshop CS5**.

## **Co-Curricular Activities**

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### **Indian Delegate, Stanford Summit (2013)**

- Participated in the Stanford Summit, presented by the Stanford Asia-Pacific Student Entrepreneurship Society (ASES), an annual event held on the Stanford campus in California.
- Technology focused conference for which only 35 delegates were chosen from all over Asia-Pacific.

- Interacted with Adam D'Angelo (Founder of Quora), Guy Kawasaki, Geoff Donaker (COO of Yelp), Tina Seelig (Executive Director of Stanford Technology Venture Program).

#### **Executive, NUS Entrepreneurship Society (2011-2012)**

- Leading student-run entrepreneurship society in Singapore.
- Organized events such as workshops, seminars, hands-on-activities and networking sessions.
- Invited to the post of Director for the following academic year.

#### **Dancer, NUS Bollywood Dance Club (2010-12)**

- Professional Bollywood dancer.
- Performed in events like "JASHAN" and "SANGAM" which showcase the spirit and vibrancy of Bollywood dance to the NUS Community.

#### **Chairman, Rotary Service Club of Madras Golden City (2009-10)**

- Leader of the youth wing of the Rotary Club in the city of Chennai.
- Organized community events such as raising funds for kids from orphanages and other social welfare programs such as disease vaccination.

### **Awards & Accomplishments**

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- Won the NUS Engineering Hackathon 2012. Project was selected among the top two and was shortlisted to receive the NUS Innovation Practicum Grant.
- Received a certificate of merit for securing 191/200 in a **state level mathematics** examination conducted by the Association of Mathematics Teachers of India.
- Was the **national level runner up** in the 'Clinic Plus Gateway 2008,' an inter-school essay competition conducted by Elite Circle in which more than 66,000 children from over 14 States participated and the competition holds a Guinness World Record.

### **Hobbies and Interests**

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Solving the Rubik's cube in less than 3 minutes, solving problems and puzzles, dancing and Tennis.