

BOBBY RANJAN

+65 8265 8737 | bobby002@e.ntu.edu.sg | www.bobbyranjan.com

Education	Experience
Nanyang Technological University B.Eng. in Computer Engineering Minor in Entrepreneurship & Life Sciences CGPA - 4.6 on 5 Ex. Graduation - June 2018 Vikhe Patil Memorial School Grade 12 CBSE Board Examinations (A-level equivalent) Science Stream School Topper with 96.8% May 2014	Technology Analyst Intern Bank of America, Merrill Lynch August – December 2016 Singapore <ul style="list-style-type: none">Used multi-threading to improve efficiency of payments systemBuilt a proof-of-concept (POC) for Payments Auto Tester v2.0Tech Stack includes AngularJS, Java Spring & SQL Summer Intern Asia Risk Transfer Solutions (ARTS) May 2016 – July 2016 Singapore ARTS is a software and tech. solutions startup that aims to help create and manage risk transfer products for developing communities in Asia. <ul style="list-style-type: none">Worked in a small team of 6 on Android development for the companyDeveloped 2 MVP Android applications for different user groupsEnhanced server-side API of the enterprise web applicationTech stack includes Java, Android and Django President's Research Scholar Nanyang Technological University August 2015 – June 2016 Singapore Project Title: Mathematical modelling of calcium signalling for regulation of neuronal cell death in Alzheimer's Disease <ul style="list-style-type: none">Modelled the process by which neuronal cell death can be regulated by calcium signalling in Alzheimer's DiseaseUsed XPPAUT and MATLAB for modelling purposesPaper publication is in progress
Skills	Selected Projects
Programming Languages: Java • Python • C • C++ Web Development: HTML5 + CSS3 • JavaScript • jQuery • Bootstrap • Django • AngularJS Other: Git • Android • XPPAUT • SQL Hardware Skills: Circuit Design • MATLAB • Arduino	BrainAid Garage@EEE July 2016 - Present <ul style="list-style-type: none">BrainAid is a portable functional Near-Infrared Spectroscopy (fNIRS) head gear to scan for subdural hematomaCurrently in the process of designing using SolidWorks & CADSoft EagleBuilt using an Arduino Uno, Raspberry Pi & Android TripBuddy.SG Co-Founder September 2015 - Present <ul style="list-style-type: none">TripBuddy.SG is an online platform that allows local students to host short trips for foreign students to encourage cultural exchange within the university communityOnline platform built on Django & PostgreSQL with HTML, CSS & JS for the frontend – undergoing beta testing CodeBot Facebook Singapore Hackathon 2016 September 2016 <ul style="list-style-type: none">CodeBot is interactive chatbot that helps beginners learn how to code with witty replies, GIFs and human-readable errorsTech stack includes MongoDB, api.ai, Node.js, HTML, CSS & JavaScript When We Meet Again NUS Hack & Roll 2015 January 2015 <ul style="list-style-type: none">When We Meet Again is an Android application that uses the relative distance between users, determined using the phone's Bluetooth, to trigger a reminder/push notificationWon 'Best Freshmen/Non-Tertiary Award' at NUS Hack & Roll 2015.Tech stack includes XML, Java (Android) & SQLite WhyBills Facebook Singapore Hackathon 2015 September 2016 <ul style="list-style-type: none">A system designed to eliminate printed bills at any point of sale (POS)Retailers can encode their bill, generate a QR Code on the POS System and display this QR Code to the customer as a receiptTech stack includes XML, Java (Android) & SQLite
Co-Curricular Activities	Achievements & Awards
IEEE NTU Student Branch Vice President NTU Sikh Society Publicity Director NTU Model United Nations Media (Built the website www.ntumun.com) NTU Students' Union Events Director	Singapore Finalist Schneider Electric - Go Green in the City 2016 May 2016 National Finalist Deloitte Risk Intelligence Challenge 2016 March 2016 Best Freshmen Award NUS Hack & Roll 2015 January 2015 All India Rank 1820 IIT JEE Advanced (India) May 2014 All India Rank 3 scoring 98.2% ICSE Board (O-level equivalent) May 2012
Selected Courses	
Discrete Mathematics Algorithms Data Structures Operating Systems Digital Systems Design Software Engineering Sensors, Interfacing & Control Systems Microcontroller Programming Computer Networks Molecular & Cell Biology Entrepreneurship for New Ventures Introduction to Forensic Science Computational Neuroscience	
Interests	
Biotechnology • Hackathons • FIFA • Football (Soccer) • Table Tennis • Singing	
Fun Facts	
✓ Visited UC Berkeley in June 2013 for National Student Leadership Conference (NSLC) ✓ Possesses DELF A2 diploma in French from Ministry of Education, France ✓ Performed in a university-wide dance concert in front of over 300 people ✓ Is a huge supporter of Manchester United Football Club	