

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 - 4.60/5.00 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 message queues to improve efficiency of payment processing systemBuilt a proof-of-concept (POC) for Payments Auto Tester v2.0Tech stack includes AngularJS, Java Spring, ActiveMQ, MyBatis & 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
Skills	Selected Projects
Programming Languages: Java • Python • C • C++ Web Development: HTML5 + CSS3 • JavaScript • jQuery • Bootstrap • PHP • JSP • Django • AngularJS • Node.js • MongoDB • ActiveMQ Other: Git • Heroku • SQL • Android • Firebase • Spring • Gradle • JUnit Hardware Skills: Circuit Design • XPPAUT • MATLAB • Arduino • ARM Cortex M4 • Raspberry Pi	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">Used XPPAUT and MATLAB for modelling purposesPresented research paper at an international conference (ICUR-URECA 2016)Paper publication is in progress
Co-Curricular Activities	Achievements & Awards
IEEE NTU Student Branch Vice President NTU Sikh Society Publicity Director NTU Model United Nations Media NTU Students' Union Events Director	CommandPlus NUS Hack & Roll 2017 January 2017 <ul style="list-style-type: none">CommandPlus is a Chrome extension that provides hand gesture-based control of one's browser.Won People's Choice Award at NUS Hack & Roll 2017Built using OpenCV, WebSockets and JavaScript 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 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 WhyBills Facebook Singapore Hackathon 2015 February 2015 <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 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
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 (Coursera) Computational Neuroscience (Coursera) Chinese Language Level 1	
Interests	
Biotechnology • Hackathons • FIFA • Football (Soccer) • Table Tennis • Singing	
Fun Facts	
✓ Invited to 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	