

BOBBY RANJAN

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Education	Experience
Nanyang Technological University B.Eng. in Computer Engineering Minor in Entrepreneurship & Life Sciences CGPA - 4.59/5.00 Ex. Graduation - June 2018	Software Design Engineer Intern BitTitan May 2017 – August 2017 Singapore <ul style="list-style-type: none">Built customer-facing license consumption report for all BitTitan productsConducted tech feasibility analysis to improve BitTitan's reporting capacityBuilt code analysis tool to clean up database references across codebaseTech stack includes C#, SQL and Microsoft Roslyn
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 2016 – December 2016 Singapore <ul style="list-style-type: none">Used message queues to improve efficiency of payment processing systemBuilt a proof-of-concept (POC) to help onboard new testers onto platformTech stack includes AngularJS, Java Spring, ActiveMQ, MyBatis & SQL
Skills	Summer Intern Asia Risk Transfer Solutions (ARTS) May 2016 – July 2016 Singapore ARTS is a software and technology solutions startup that aims to help create and manage risk transfer products for developing communities in Asia <ul style="list-style-type: none">Developed 2 MVP Android applications for different user groupsEnhanced server-side API of the enterprise web applicationTech stack includes Java, Android and Django
Programming Languages: Java • Python • C • C++ • C#	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)
Web Development: HTML5 + CSS3 • JavaScript • jQuery • Bootstrap • PHP • JSP • Django • AngularJS • Node.js • MongoDB • ActiveMQ	Selected Projects
Other Software Skills: Git • Heroku • SQL • Android • Firebase • Spring • Gradle • JUnit • Roslyn	Protein Interaction Networks Final Year Project, NTU April 2017 - Present <ul style="list-style-type: none">Developed module to build protein networks from reference databasesDeveloped technique to extract dense networks as protein complexesBuilt Cytoscape module using Java; used Python for network analysis
Hardware Skills: Circuit Design • XPPAUT • MATLAB • Arduino • ARM Cortex M4 • Raspberry Pi	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
Co-Curricular Activities	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
IEEE NTU Student Branch Vice President NTU Sikh Society Publicity Director NTU Model United Nations Media NTU Students' Union Events Director	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
Selected Courses	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
Discrete Mathematics Algorithms Data Structures Operating Systems Introduction to Databases Digital Systems Design Software Engineering Sensors, Interfacing & Control Systems Microcontroller Programming Computer Networks Principles of Genetics Entrepreneurship for New Ventures Introduction to Forensic Science (Coursera) Computational Neuroscience (Coursera) Chinese Language Level 1	Achievements & Awards
Interests	People's Choice Award NUS Hack & Roll 2017 January 2017 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
Life Sciences • 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	