

BOBBY RANJAN

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Education	Experience
Nanyang Technological University <i>MOE Tuition Grant Recipient</i> B.Eng. in Computer Engineering Minor in Entrepreneurship & Life Sciences CGPA - 4.54/5.00 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	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 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 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 President's Research Scholar Nanyang Technological University August 2015 – June 2016 Singapore Project Title: Composite mathematical modelling of calcium signalling behind neuronal cell death in Alzheimer's disease <ul style="list-style-type: none">Used XPPAUT and MATLAB for modellingPaper accepted for publication in BMC Systems BiologyPresented paper at APBC 2018 (Yokohama, Japan)
Skills	
Programming Languages: Java • Python • C# • C Web Development: HTML5 + CSS3 • JavaScript • jQuery • Bootstrap • PHP • JSP • Django • AngularJS • Node.js • MongoDB • ActiveMQ Other Software Skills: Git • Heroku • SQL • Android • Firebase • Spring • Gradle • JUnit • Roslyn Hardware Skills: Circuit Design • XPPAUT • MATLAB • Arduino • ARM Cortex M4 • Raspberry Pi	
Co-Curricular Activities	
IEEE NTU Student Branch Vice President NTU Sikh Society Publicity Director NTU Model United Nations Media NTU Students' Union Events Director	
Selected Courses	
Machine Learning Computer Vision Advanced Algorithms Distributed Systems Information Retrieval Operating Systems Introduction to Databases Digital Systems Design Software Engineering Sensors, Interfacing & Control Systems Computer Networks Biostatistics Biochemistry Principles of Genetics Entrepreneurship for New Ventures	Selected Projects ContextNewsBot NUS Hack & Roll 2018 January 2018 <ul style="list-style-type: none">A Chrome extension that provides a diverse set of news articles and objective Wikipedia links for any tweet on your Twitter timeline.Won Top 8 prize & Most Socially Useful Hack award at NUS Hack & Roll 2018.Uses a Flask server with Twitter and news APIs, and a custom NLP pipeline Protein Interaction Networks Final Year Project, NTU August 2017 - Present <ul style="list-style-type: none">Applied module detection and clustering algorithms to help researchers identify significant modules in Protein Interaction Networks (PIN).Developed Cytoscape plugin using Java; used Python for network analysis. CommandPlus NUS Hack & Roll 2017 January 2017 <ul style="list-style-type: none">A Chrome extension providing hand gesture-based control of one's browser.Won People's Choice Award at NUS Hack & Roll 2017.Built 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 errors.Tech 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">An Android app that uses the relative distance between users, determined using the phone's Bluetooth, to trigger a reminder/push notification.Won Best Freshmen/Non-Tertiary Award at NUS Hack & Roll 2015.Tech stack includes XML, Java (Android) & SQLite.
Interests	
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	Achievements & Awards Top 8 & Most Socially Useful Award NUS Hack & Roll 2018 January 2018 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