

Objective	Seeking for a software development internship role for the summer of 2017.	
Education	University of California, San Diego (UCSD) , La Jolla, CA	<i>Sep. 2016 - Dec. 2017 (Expected)</i>
	Department of Computer Science and Engineering (CSE) Master of Science in Computer Science Major GPA: 3.90/4.0	
	Nanyang Technological University (NTU) , Singapore, Republic of Singapore	<i>Aug. 2012 - Jun. 2016</i>
	Bachelor of Engineering in Electrical & Electronic Engineering Major GPA: 4.62/5.0 , 1st Class Honors	
Computer Skills	University of California, Berkeley (UCB) , Berkeley, CA	<i>May. 2013 - Jul 2013</i>
	Undergraduate summer school program	
	Computer Languages: <i>Java (OOP), Javascript, HTML, CSS (Web server and front-end development), C (Cryptography, system-level programming), Matlab (Scientific computing), PHP, Python (Web application maintenance), SQL (Database query language), LaTeX (Scientific writing), Git (Version control, collaboration), Bash (Unix command interpreter)</i>	
	Platforms & Frameworks: <i>Android Studio, Node.js, Express, Bootstrap, jQuery, D3.js, Angular</i>	
Work Experience	Software Engineering Intern, Rolls-Royce Corporation , Republic of Singapore	<i>Jan. 2015 - May 2015</i>
	<ul style="list-style-type: none">• Developed <i>D3.js</i> web applications to visualize engine service data by engine type, defect category.• Designed and implemented user interfaces for data interpretation web applications• Used <i>Bootstrap</i> and <i>Media Query</i> to build responsive web applications.	
Projects	Web Mining and Recommender Systems	<i>Jan. 2017 - Present</i>
	<i>UCSD class projects for Web Mining and Recommender Systems</i>	
	<ul style="list-style-type: none">• Applied the techniques of <i>Regression, Classification, etc</i> to build a rating predictor system in <i>Python</i>• Implemented a latent factor model in <i>Python</i> to predict user ratings of their Amazon purchases• Trained the system using 200,000 entries of anonymous review data from Amazon• Achieved an mean error of 1.03 for rating prediction (rating based on a 5-star system)	
	Android Development	<i>Jan. 2017 - Present</i>
	<i>GRE Vocabulary Builder</i>	
	<ul style="list-style-type: none">• Building an Android app to help students prepare for GRE verbal tests• Automatically generates multiple choice questions to test student's vocabulary• Connects to Android's text to speech API to provide pronunciations for all words• Connects to SQLite database to store user performance metric and support predictive search	
	Computer Vision	<i>Sep. 2016 - Dec. 2016</i>
	<i>UCSD class projects for Computer Vision</i>	
	<ul style="list-style-type: none">• Implemented image formation under the <i>Perspective Camera Model</i> with different camera parameters.• Implemented a recognition algorithm based on Eigenfaces and Principle Component Analysis• Implemented the <i>Lucas-Kanade algorithm</i> to estimate optical flow between image frames.	
	Probabilistic Learning	<i>Sep. 2016 - Nov. 2016</i>
	<i>UCSD class projects for Probabilistic Reasoning and Artificial Intelligence</i>	
	<ul style="list-style-type: none">• Implemented a set of learning algorithms in <i>Java</i> and <i>Matlab</i>, including <i>maximum likelihood, EM, etc</i>• Implemented multiple <i>Markov language models</i>, e.g <i>unigram, bigram and mixture models</i> in <i>Java</i>.• Implemented the <i>Markov decision model</i> for a puzzle solving agent using value and policy iteration.	
	Online Movie Ticket Reservation System	<i>Aug. 2015 - Nov. 2015</i>
	<i>NTU class project for Web Application Design</i>	
	<ul style="list-style-type: none">• Implemented a ticket reservation web application supporting seat-picking, synopsis and user rating.• Implemented the backend using <i>MySQL</i> and <i>PHP</i> to update and retrieve information from database.• Designed user interface using <i>HTML, CSS</i> and <i>JavaScript</i>.	
Standardized Language Proficiency Tests	Autonomous Fleet Simulation in Airports	<i>Aug. 2015 - May 2016</i>
	<i>NTU Final Year Project</i>	
	<ul style="list-style-type: none">• Developed in <i>Java</i> to implement a cycle of ground vehicle operation after the landing of an aircraft.• Developed a true-to-scale map of Singapore Changi Airport in <i>PTV Vissim</i> for testing.• Applied <i>Java</i> code through Microsoft COM interface to PTV Vissim to visualize the simulation.	
	<ul style="list-style-type: none">• TOEFL iBT (111/120), Reading 30/30, Listening 30/30, Speaking 26/30, Writing 25/30.• GRE General (331/340), Verbal Reasoning 161/170 (88%), Quantitative Reasoning 170/170 (97%).• UCSD English Language Certification for Teaching (3.0/4.0) <i>Pass</i>.• Mandarin: <i>native</i>, French: <i>elementary</i>	