

Timothy Z. Chang

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EDUCATION	University of Notre Dame Dean's List 4 Semesters: Fall 2014–Fall 2016 Bachelor of Science in Computer Science GPA 3.67, Cum Laude	Notre Dame, IN May 2017
EXPERIENCE	Ampersand Technologies Inc. – Los Gatos, CA <i>Junior Software Engineer, June 2017–present</i> <ul style="list-style-type: none">• Revamped major “Table of Contents” feature using React.js and Typescript• Fast prototyped “Explorer” data viz tool using React and Redshift for the data science team• Worked closely with Data Science and Marketing to log core metrics and ads attribution. Facebook Software Engineering Intern – Menlo Park, CA <i>iOS Search Team, May 2016–August 2016</i> <ul style="list-style-type: none">• Without prior iOS experience, built features in ComponentKit, forebear of React Native• Built 2016 election map for mobile search results using ComponentKit and GraphQL• Carried out comprehensive modular ComponentKit component overhaul of results page Undergraduate Research with Dr. David Chiang – Notre Dame, IN <i>Research Assistant, January 2015–May 2016</i> <ul style="list-style-type: none">• Examined the role of partial gradients in the effectiveness of LSTMs on Language Models• Implemented LSTM experiments using Penne, a pre-Tensorflow, homespun NN framework• Undertook project to augment NLTK toolkit with Japanese-English Transliterator Summer Research Expeditions with Dr. Ben Van Durme – Baltimore, MD <i>Research Assistant, May 2015–September 2015</i> <ul style="list-style-type: none">• Developed Python toolkit for interfacing with the Ontonotes ontology/corpus• Wrote Amazon Mechanical Turk HITs for crowdsourcing data generation• Presented project poster to communicate research results	
PROJECTS	Gif Battle Site <i>February 2018</i> <ul style="list-style-type: none">• A serverless Node.js webapp that lets users vote on gif pulled from Giphy• Built in Angular, converting to React ‘C-minor’ Compiler <i>September 2015–December 2015</i> <ul style="list-style-type: none">• Wrote ahead of time compiler with the help of Lex, Yacc, and the Dragon Book• Implemented scanning, parsing, typechecking and x86 code generation of a C-like language Roll Call – Notre Dame, IN <i>September 2016–December 2016</i> <ul style="list-style-type: none">• Created a mobile-first attendance web-app to revamp the ND Band’s outdated system• Built frontend with HTML, Bootstrap for CSS, and JQuery	
SKILLS	<i>Tech:</i> React.js, Node.js, Webpack, Spark, AWS Redshift, Git, Atomic CSS, GraphQL, MySQL <i>Languages:</i> Typescript, Javascript, HTML, CSS, Python, Java, C++, C, SQL, x86 <i>Natural Language:</i> English, Mandarin	
LEADERSHIP	Boy Scouts of America Eagle Project – Cupertino, CA <i>Project Leader, April 2013–August 2013</i> <ul style="list-style-type: none">• Led the construction of handicap accessible ramps for seven emergency shelters	