https://jtchiu.github.io/
Plainview, NY

JUSTIN CHIU

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EMPLOYMENT

R&D Intern	**KEMP Technologies**	**April 2017 – August 2017**

Vision 2.0 KEMP Bot (Node.js)
- Worked with a team of senior software developers, system integrators, and quality assurance engineers on the development of a Slack Bot, which will serve as the centerpiece for customer engagement.
- Moved hard-coded communication platform to an advanced NLP platform by integrating NLP to KEMP Bot using Microsoft Luis, which calculates the score for every user intent and outputs the top scoring intent.
- Centralized logging, using Elasticsearch/Logstash/Kibana, for maintaining load balancers and bots.
- Visualized database queries using Chart.js as an additional feature to KEMP Bot.

EDUCATION

Stony Brook, NY	**Stony Brook University**	**August 2015 – May 2019**

- Bachelor of Science in Computer Science with Specialization in Systems Software Development
- Undergraduate Coursework: Object-Oriented Programming; Data Structures and Algorithms; System Fundamentals I; Applied Linear Algebra; Discrete Mathematics; Calculus II; Finite Mathematical Structures; Survey of Probability and Statistics; Computer Science III; Natural Language Processing; Theory of Computation; Systems Fundamentals II; Analysis of Algorithms.

Bethpage, NY	**Bethpage High School**	**September 2011 – May 2015**

- Advanced Regents High School Diploma with Mastery in Math
- Quarterly Gold Honor Roll Achievements

PROGRAMMING PROJECTS

Food Beyond (Python, HTML, CSS, JavaScript)	**February 2017**

- Organizes the user's ingredients and lists recipes corresponding to the ingredients in the user's inventory.
- Using the Raspberry-Pi, SimpleCV, and UPC-database, we could scan items and update the user's ingredients, which is stored using MongoDB.
- Designed and implemented the front-end of the project using HTML, CSS, Bootstrap, Javascript, and jQuery.
- Utilized the Food2Fork API and handled the front-end using Python(Flask).

Feature-based Extraction Summarizer (Python)	**May 2017**

- Implemented a feature-based extractive summarizer using Dragomir R. Radev's LexRank text summarization algorithm. Evaluated inverse document frequency values and calculated accuracy on our extractor based on the CNN/Daily Mail dataset.
- Learned how to make a cosine similarity matrix stochastic, aperiodic, and irreducible to interpret it as a Markov Chain.

Course Site Generator (Java, HTML, CSS, Javascript)	**May 2017**

- JavaFX FXML desktop application that generates HTML/CSS/Javascript code based on values provided by the dynamic GUI. Information on the project could be found on my website, as well as a link to the repository.
- Given a software requirements specification, I composed a software design description, which includes a sequence of UML class diagrams and sequence diagrams.

Languages and Technologies
- Proficient: Java, Python, Node.js (Back-end)
- Fundamental: HTML, CSS, Javascript (Front-end), C, Swift 3
- Technologies: Git, JSON, XML, FXML, Microsoft Azure, InfluxDB, Microsoft Luis, Chart.js, Slack Bot (Node.js), Behavior Driven Testing, Firebase, Jenkins, Bootstrap, ELK Stack, Linux