Tyler Jiang

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EDUCATION	**Brown University** Expected Graduation May 2021

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Brown University   Expected Graduation May 2021
- B.Sc. in Computer Science
  - GPA: 4.0 / 4.0
  - Relevant Courses: Intro to Software Engineering, Intro to Discrete Structures and Probability, Accelerated Intro to CS, Multivariable Calculus

Nashua High School North   Jun 2017
- Graduated salutatorian (2 out of ~450 people) in the class of 2017

WORK EXPERIENCE

Fidelity Investments, *Software Engineering Intern*   May – Aug 2018
- Rebuilt the front-end of an internal tool used by ~4,000 representatives (~20,000 registered) to securely view a customer's account without exposing sensitive data
  - Used Angular 6 to manage app components and services, verified user identities and permissions with a RESTful API
  - Created a separate tool with Vue.js which checks and displays authorization permissions for a representative
- Improved team productivity by automating information retrieval about the team's fine-grained authorization database
  - Sped up an existing Selenium task that checks if applications are down by ~120x by moving it to a Spring Boot service and implementing threads
  - Took the initiative to write a script that converts the team's dashboard of URLs to a JSON, which enabled the team to automate data retrieval
- **Tools Used**: Angular 6, TypeScript, SASS, RxJS, Java, Spring Boot, Vue.js, Jira

Brown Political Review, *Data Associate*   Jan 2018 – Present
- Built a web app to display student-written articles and interactive D3 data visualizations
- Managed articles with a PostgreSQL database and deployed with Heroku, ~2,000 visitors since April 2018
- **Tools Used**: Django, Python, PostgreSQL, Heroku, HTML, CSS, JavaScript, Bootstrap

PROJECTS

Elephluent
- Worked in a team of four to launch a web app that teaches children foreign languages with interactive lessons and games
- Integrated lesson and user progress data from a MongoDB-backed RESTful service with the front-end
- Implemented a system where kids can listen to and practice speaking common phrases with the Web Speech API
- **Tools Used**: HTML, SASS, jQuery, Java, MongoDB, PixiJS

Maps
- Worked with a partner to create an interactive Google Maps clone with pan and zoom
- Implemented the A* algorithm to find directions and a k-d tree to efficiently search for locations near a given coordinate
- **Tools Used**: HTML, CSS, jQuery, Java, SQLite

Google Calendar Automator, *MAHacks 2017 Prize Winner*
- Created a prize-winning utility in Python that can find a schedule on a web page and upload each event to Google Calendar

tylerjiang.me *(Personal Site)*
- Overhauled my personal website and blog with Gatsby.js (based on React and GraphQL), deployed with Netlify

Chatterbox
- Created a chat application for Android in Java which allows users to and send and receive messages online
- Stored messages and managed user authentication with Firebase

AWARDS & SCHOLARSHIPS

- American Computer Science League All-Star Finalist   Jun 2016
  Invited to participate in the All-Star Contest, a national competition for top scoring teams

- American Regional Mathematics League Team High Scorer   May 2016
  Earned a medal for most points scored on the NH state team at ARML 2016, a national mathematics tournament

- National Merit Finalist   Mar 2017

- National AP Scholar   Jul 2017
  Earned after scoring 5 out of 5 on 10 AP exams.

LEADERSHIP EXPERIENCE

Brown igniteCS, *Mentor*   Sept – Dec 2017
- Developed curriculum and volunteered to teach computer science at Dr. Earl F. Calcutt Middle School

Mu Alpha Theta, *President*   Jun 2016 - Jun 2017
- Led ~50 members of the Nashua North chapter of Mu Alpha Theta, the national math honor society
- Organized the school's tutoring center and connected students who needed extra math help with members

LANGUAGES

- English (native), Mandarin Chinese (professional working proficiency)