

# Jonathan Lian

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## Education

### Georgia Institute of Technology

- B.S. Computer Science
- Graduation: December 2018
- GPA: 3.72

## Skills

- **Languages:** Java, JavaScript, TypeScript, Python, C
- **Tools/Frameworks/Technologies:** Angular, React.js, Node.js, HTML/CSS, jQuery, Git, Github, Tableau, Cloud Foundry, Amazon Web Services, Drupal
- **Databases:** MySQL, PostgreSQL, DB2

## Experience

### Software Engineering Intern | The Home Depot *Summer 2017*

- Created an application to detect allocation anomalies for inventory replenishment systems
- Handles multiple issue prioritization for thousands of anomalies from daily batch processes
- Displays historical trends with behavioral diagnostics and issue resolution functionality
- Implemented using predominantly Angular, SQL, Spring Boot & Java, and Pivotal Cloud Foundry

## Projects

### Magic Mirror | Github *Summer 2017*

- Created a Raspberry Pi-powered smart mirror which recognizes a hand gesture to take an image, relays that picture to an image-hosting service, and sends an image link to a phone via SMS
- Utilized Python, OpenCV for recognition, Imgur API for image hosting, Twilio API for messaging, and Tkinter for the interface alongside multiprocessing and scheduling modules

### SoundCloud Song Sorter | Github *Summer 2017*

- Organizes a specific artist's songs by most favorites or playbacks using SoundCloud's JavaScript API to help listeners find music they're more likely to enjoy because SoundCloud currently does not support this feature
- Contains UI/UX updates from a previous version with code refactored from jQuery to React.js

### Excel | Epic Intentions *Spring 2017*

- Developed an app for a nonprofit named Excel with programs for students with intellectual disabilities
- Supports automated mentor-mentee matching, content management capabilities, and database hosting which replaced the previous method of using Excel sheets with manual data entry
- Constructed database schemas, backend endpoints, and migrations with PostgreSQL, Node.js, and Sequelize ORM and created UI components using Handlebars, HTML, and Materialize CSS

## Leadership

### Intelligent Transportation Systems | Research *Team Lead (August 2016 - Present)*

- Currently migrating new database information and developing a dashboard for bus managers to determine relevant bus bunching statistics through graphical and tabular visualizations
- Led a sub-team by holding regular team meetings, software learning sessions, and client demos

### Epic Intentions *Project Lead (Spring 2017 - Present)*

- An organization aiding non-profits by allowing students to undertake projects on their behalf
- Currently leading a seven person team to create data and map visualizations for Atlanta Speech School

### Georgia Tech Table Tennis Association *Vice President, Webmaster, & Safety Officer (Fall 2015 - Present)*

- Recruited players from student orientations, organized weekly club practices, attended budget meetings, and managed the club website while leading our B Team in regional NCTTA tournaments
- Created scripts using Python and Google Sheets API to automate rating input and roster changes

## Awards

- 1st Place Overall, CS^2 Hackathon 2016
- 2nd Place in Best Use of Aladdin API, HackGT 2016
- Player of the Year, Georgia Tech Table Tennis Association 2017