

# Zhu Zhuang (Catherine)

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## EDUCATION

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### GEORGIA INSTITUTE OF TECHNOLOGY

**Bachelor of Science in Computer Science** (Expected Graduation December 2019)

**Atlanta, Georgia**  
*August 2016 - Present*

- Concentration: Information Internetworks & User Experience
- GPA: 3.73

## EXPERIENCE

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### Co-op, Itential, LLC

*January 2018 - Present*

- Term 1: Software Developer Engineer position on DevOps and Quality Assurance Team
  - Mainly use JavaScript and NodeJS for company product development
  - Developed a side project with VueJS and Nuxt to display Gitlab CI/CD pipeline information on office TV monitor; Wrote Dockerfile and deployed the project onto Amazon EC2 server
  - Used Jest, Mocha, Enzyme and Chai frameworks to perform unit and integration testing for company product
  - Wrote Bash scripts for CICD pipelines to write comments on JIRA issues
- Term 2: Software Developer Engineer position on Product Delivery Support Team
  - Developed a React application that interacts with MongoDB to show data analytics in graphs and tables
  - R&D for using Kubernetes to deploy company software and helm charts to package Kubernetes deployments and services

### Assistant Researcher, Facilitating Interactions for Dogs with Occupations Research Lab

*October 2017 - Present*

- Made a physical service dog vest for Paws4Life with the goal of helping autism kids during mental breakdowns
- Used Arduino with C++ for software development
- Learned basic electronics skills: soldering, read and make electronic board diagrams, assembling electronic boards

### 1-to-1 Tutor, Georgia Institute of Technology Center for Academic Success

*January 2017 - August 2017*

- Work as a tutor to help Georgia Tech students with Linear Algebra, Discrete Math and Computer Science courses
- Receive CRLA tutor training certifications

## SKILLS

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**Coding Languages:** Python, Java, C/C++, JavaScript, Assembly

**Web Development:** HTML, CSS, JavaScript, NodeJS, VueJS, MySQL, MongoDB

**Communication Languages:** English: Fluent; Chinese: Native

## ACTIVITIES or PROJECTS

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### Intelligent Tutoring System, Vertically Integrated Projects

*August 2017 – Present*

- Made interactive CLTI GUI laboratory demonstrations to enhance students learning
- Used JavaScript and JSXGraph to display DSP concepts in visible graphs
- Designed MySQL database structures to store student usage information of the GUI for study progress analysis

### MARTA System Database, Georgia Tech Sustainability Program

*August 2017 - December 2017*

- Designed a customized relational database schema and controlling system for MARTA system
- Used MySQL platform to perform subway trip processes, managing user card information and administrative features
- Used Flask as front-end UI framework

### Land Bank Authority, GT Epic Intentions

*August 2017 - November 2017*

- Implemented a database structure using Microsoft Access to store property data for the non-profit organization
- The database follows basic relational database principles, including tables, relations and database schemas

### Automated Note Generator, Hack GT 2017

*September 2017*

- Developed an Android application to transcribe hand-written notes or audio messages into Word and PDF documents
- Deeply modified an OCR model for picture recognition and a language processing model for audio recognition

**Lost & Found Android App***May 2017-August 2017*

- Designed a lost and found Android application for campus services
- Integrated Firebase database, animation and Google Maps within the application
- Implemented with Agile development and learned popular team collaborations methodologies

**Project Live Love, GT Epic Intentions***January 2017 - April 2017*

- A website for the non-profit to match company events with community volunteers base on their personal preferences
- The website includes a homepage with newsfeed, private company page, user page and registration functions.
- UI Design: InVision; Front-end: HTML, CSS, JavaScript and Handlebar; Back-end: PHP

**Habit Pets, Hack GT 2016***September 2016*

- A gaming To-Do List to help people get motivated for their work
- Features includes user registration, interactive To-Do lists and Daily Tasks for users and an animated pet of your choice as rewards for completing the tasks
- Used HTML, CSS, JavaScript and Bootstrap for front-end development and PHP for back-end