

# Timothy J. Aveni

timothyaveni.com

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## Education

Georgia Institute of Technology     *Atlanta, GA*

August 2016 – May 2019

- Candidate for Bachelor of Science in Computer Science
- Head Teaching Assistant, Data Structures and Algorithms (CS 1332)  
“aghhhh love tim!!!! 10/10 would recommend” (source: Fall 2018 anonymous course evaluation)
- 4.0 GPA

## Experience

Facebook - Software Engineering Intern     *Menlo Park, CA*

May 2018 – August 2018

- Worked in the Social Video Discovery team on a full-stack web project enabling custom GIF creation
- Wrote modern Flux-backed React code to build a dynamic, interactive user experience
- Created a GraphQL API in Hack, interfacing with video encoding and using Relay to link to the UI
- Enhanced Facebook's video encoding infrastructure, resulting in an order-of-magnitude speedup in multiple product flows

Facebook - Software Engineering Intern     *Menlo Park, CA*

May 2017 – August 2017

- Worked in the Messenger Monetization team to improve the ads creation flow for Click-to-Messenger ads
- Used Hack/PHP on the backend and JavaScript + Flow on the frontend
- Navigated and built on a bleeding-edge React and Flux codebase
- Collaborated cross-functionally across the Ads platform to ensure code quality and consistency

Georgia Tech Contextual Computing Group - Research Assistant     *Atlanta, GA*

January 2017 – present

- Designed a study to test the acquisition of computer stenography skills through passive haptic learning
- Built hardware, firmware, and software to power and analyze the results of the study, start to finish
- Ran dozens of trials and conducted statistical analysis on results

## Projects

Bolt     **September 2017 – present**

Grading assistant software in Electron for CS 1332 teaching assistants

- Built a grading tool with a powerful interface in React, Redux, and Java
- Iterated quickly on feedback to improve workflow efficiency
- Designed an extensible plugin framework for automatic point deductions

Wavelyric     **July 2016**

Web-based tool for mapping song lyrics to a karaoke track

- Developed a fast, open-source canvas waveform rendering library in JS
- Resolved an unmet stretch goal worth \$3,000 by developing this tool
- Published the tool for use alongside a video game with 15,000+ players

Cookie Externalities     **April 2016**

Real-time game and learning experience for a Microeconomics class

- Wrote a Node.js server that supported 30+ concurrent connections
- Designed and built an AngularJS UX for a competitive market simulator
- Used the game to teach the impacts of externalities in a free market

PluckLock     **November 2014 – December 2014**

Android app that locks the device when it is snatched from the owner

- Developed the app in Java and XML with the Android SDK
- Published to the Google Play store (300+ installs) and F-Droid
- Received pull requests for translations into German and Italian

More projects and information available at [timothyaveni.com](http://timothyaveni.com)

All open-source projects listed are available at [github.com/syntaxblitz](https://github.com/syntaxblitz)

## Skills

### Languages

JavaScript (ES2018), HTML/CSS3, Java, Python

### Technologies

Node.js, Express, React, Redux/Flux, Reselect, jQuery, Web Audio API, Socket.io, Flow

### Spoken Languages

English (native), French (conversational)

## Involvement and Recognition

• Cold Case Act     **May 2016 – present**  
Technology, Public Relations

• CETL Thank a Teacher     **December 2018**

• HackGT     **January 2018 – present**  
Organizer, Curriculum writer, Workshop presenter

• Google Games ATL     **2017, 2018**  
First place!

• Pearl Hacks     **2017**  
Mentor

• HackGTeeney     **2016**  
Mentor