

Timothy J. Aveni

timothyaveni.com

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Education

Georgia Institute of Technology – Atlanta, GA

Expected graduation – May 2019

Candidate for Bachelor of Science in Computer Science
Threads: Intelligence and Information Internetworks

Hightstown High School – Hightstown, NJ

September 2012 – June 2016

GPA: 4.56 / 4.0 (weighted)

Work experience

Upwork.com - Various contract work

February 2016 – May 2016

- Worked with clients individually to assess their needs and respond with appropriate content and solutions
- Analyzed a foreign code base to determine the cause of a problem and create a long-term solution
- Advised a client on security concerns within his existing content management system
- Wrote 18,000+ words of article content about trends in consumer electronics

Private one-on-one tutoring

October 2015 – December 2015

- Led a community college student through a full Web Development course
- Guided the student as he programmed in a pair-programming style
- Worked in person as well as remotely with screen sharing software

Projects

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

Skyward.link

March 2015 – October 2015

Web-based tool to use a phone to control a Google Slides presentation

- Developed a back-end with Node.js and Socket.io
- Developed three front-end clients in HTML and JavaScript
- Published the source code under the MIT license

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 (250+ installs) and F-Droid
- Received pull requests for translations into German and Italian

More projects and information available at timothyaveni.com

All projects listed are open-source and available at github.com/syntaxblitz

Skills

Languages

JavaScript (ES6), HTML5/CSS3, Java, Python

Technologies

Node.js, Express, Socket.io, AngularJS, jQuery, Web Audio API

Spoken Languages

English (native), French (intermediate)

Involvement

Activities

- Hightstown HS Marching Band **2012 – 2016**
Assistant Drum Major, Trumpet Captain
- GA Tech Marching Band **2016 – present**
Member
- Hightstown HS STEM Club **2014-2016**
Co-founder, Vice President
- DramaTech **2016 – present**
Assistant sound engineer

Awards

- Best Data Visualization, HackGT **2016**
- Best Improvement to the Shopping Experience at Macy's, HackGT **2016**
- National Merit Scholar **2016**
- National AP Scholar **2016**