Timothy J. Aveni

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Education

Georgia Institute of Technology Atlanta, GA

August 2016 - May 2019

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

Experience

Facebook - Software Engineer Menlo Park, CA

June 2019 - present

• Fighting the proliferation of viral hoaxes on the Misinformation team

Facebook - Software Engineering Intern Menlo Park, CA

Summer 2017, Summer 2018

- · Worked in the Messenger Monetization and Social Video Discovery teams on rich, full-stack web experiences
- Used Hack/PHP on the backend, and wrote modern Flux-backed React code on the frontend
- · 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

Georgia Tech Contextual Computing Group - Research Assistant

Atlanta, GA

January 2017 - May 2019

- · Designed a series of studies to test the acquisition of computer stenography skills through passive haptic learning
- · Built hardware, firmware, and software, start to finish, to power and analyze dozens of trials
- <u>T. J. Aveni</u>, C. Seim and T. Starner, "A preliminary apparatus and teaching structure for passive tactile training of stenography," 2019 IEEE World Haptics Conference (WHC), Tokyo, Japan, 2019.
- T. J. Aveni, "Passive Haptic Learning for Computer Stenography," 2019. Undergraduate Thesis.
- C. Seim, R. Pontes, S. Kadiveti, Z. Adamjee, A. Cochran, <u>T. Aveni</u>, P. Presti, T. Starner. "Towards Haptic Learning on a Smartwatch," ISWC '18. ACM, New York, NY, USA, 2018.

Projects

Bolt

September 2017 - May 2019

Grading assistant software in Electron for CS 1332 teaching assistants

- Built a grading tool with a powerful interface in React, Redux, and Java
- Used static and dynamic code analysis to analyze student submissions
- Designed an extensible plugin framework for automatic point deductions

Wavelyric

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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

All open-source projects listed are available at 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 - May 2019
 Technology, Public Relations

· CTL Thank a Teacher Dec. 2018, May 2019

HackGT January 2018 - May 2019
 Organizer, Curriculum writer,
 Workshop presenter

• Google Games ATL 2017, 2018 First place!

• Pearl Hacks 2017 Mentor

· HackGTeeny 2017

Mentor