

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)
- Managed 30 teaching assistants and 600 students per semester
- Developed and taught lectures, designed and administered exams, assisted with creating materials for online course

Work

Turnitin - Software Engineer - Gradescope *Oakland, CA*

August 2020 – present

- Wrote full-stack Rails code for products that help instructors grade assessments and return feedback to students
- Participated in the user-facing engineering email support rotation
- Introduced static code analysis and automation to improve workflows in a new internationalization/localization effort
- Remediated accessibility issues to meet WCAG 2.1 recommendations

Facebook - Software Engineer - Misinformation Transparency *Menlo Park, CA*

June 2019 – June 2020

- Worked full-stack on products that educate Facebook and Instagram users about fact-checks for false information
- Designed and implemented a caching framework to handle the load of trillions of requests per day
- Maintained and improved central backend product code, used to aggregate and present fact-checks across the platform
- Enhanced data quality and leveraged logging to inform product decisions and discover anomalies

Facebook - Software Engineering Intern *Menlo Park, CA*

Summer 2017, Summer 2018

- During two internships, used Hack/PHP, Flux-backed React, and GraphQL with Relay
- Enhanced Facebook's video encoding infrastructure, resulting in an order-of-magnitude speedup in multiple product flows

Research

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

January 2017 – May 2019

- Designed a series of studies to explore teaching computer stenography skills through passive haptic stimuli
- Built hardware, firmware, and software, start to finish, to power and analyze dozens of user trials
- [T. J. Aveni](#), 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, [T. Aveni](#), P. Presti, T. Starner. “Towards Haptic Learning on a Smartwatch,” *ISWC '18*. ACM, New York, NY, USA, 2018.

Projects

Language Transfer app **May 2020 – present**

Mobile app in React Native for language learning

- Designed, built, and shipped an open-source app for Language Transfer, a free series of language courses for beginners
- 100,000+ installs and 4.8 rating over 1,500+ reviews

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

More projects and information available at timothyaveni.com

Skills

Languages

TypeScript, HTML/CSS, Java, Python, Ruby

Technologies

React, React Native, Redux, Node.js, Express, jQuery, Ruby on Rails, Socket.io, Web Audio

Spoken Languages

English (native), French (conversational)