

Harrison Kwik

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EDUCATION **University of Washington**, Seattle, WA GPA: 3.75
Bachelor of Science, Computer Science, June 2018

COURSEWORK Advanced Human-Computer Interaction (Capstone), Introduction to Human-Computer Interaction, Data Visualization, Introduction to Compiler Construction, Introduction to Artificial Intelligence, Data Structures and Parallelism, Software Design and Implementation, Programming Languages, Discrete Mathematics, Probability and Statistics, The Hardware and Software Interface, Computer Security, Systems Programming

EXPERIENCE **Software Engineer Intern** Allen Institute for Artificial Intelligence
Seattle, WA Oct 2018 - Mar 2019
Worked in a full-stack development environment on the Semantic Scholar team. Improved the website's "Library" feature to support entry tag management.

Software Engineer Intern Versive
Seattle, WA June 2018 - Sept 2018
Developed front-end components for consumer-facing interfaces and built API features for new customer interactions.

Undergraduate Researcher Code and Cognition Lab
Seattle, WA Sept 2016 - June 2018
Built intelligent computer science tutoring systems using modern web technologies. Independently conducted research on CS transfer student experiences, resulting in a first-author publication.

Teaching Assistant CSE Department
Seattle, WA Mar 2017 - June 2018
Developed and taught curriculum and assignments for recently admitted Computer Science and Engineering transfer students.

PUBLICATIONS Benjamin Xie, Dastyni Loksa, Greg L. Nelson, Matthew J. Davidson, Dongsheng Dong, **Harrison Kwik**, Alex Hui Tan, Leanne Hwa, Min Li, Andrew J. Ko. 2019. A Theory of Instruction for Introductory Programming Skills. In *Computer Science Education*.

Harrison Kwik, Benjamin Xie, and Andrew J. Ko. 2018. Experiences of Computer Science Transfer Students. In *Proceedings of ACM Conference on International Computing Education Research Conference (ICER)*, New York, NY, USA, 115-123.

PROJECTS **The Collaboration Station**, HCI Capstone Spring 2018
A physical machine that connects people via project opportunities based on shared interests. Users answer interest questions using a number keypad and are then matched with other users, which they can leave voice messages for using a phone. Designed and implemented the user interface and system to record messages and connect users.

koconut, Code and Cognition Lab Spring 2017 - Summer 2017
An intelligent CS1 (introductory computer science) tutor which models and tests student knowledge using personalized problems. Designed the project architecture and specification, developed the user interface and experience, implemented backend models for user knowledge, and server-side code execution to evaluate student responses.

SKILLS **Languages:** JavaScript, Python, Java, Scala, C/C++, SQL, HTML/CSS, L^AT_EX
Tools: React, Vue, Node.js, Express, Flow, TypeScript, Sass, Django, Git