DIANA KOWALSKA

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EDUCATION

University of Illinois at Urbana-Champaign December 2020
B.S. Mathematics and Computer Science

SKILLS

Programming Languages: Java, Python, JavaScript, Haskell, C, C++

Libraries: React, numpy, pandas

Tools: git, emacs, vim, org-mode, LaTeX

Human Languages: English, Polish, Italian, Spanish

EXPERIENCE

Software Engineer (IT Development Program) January 2021 — Present
John Deere *Moline, IL*

- Design, develop, and implement large-scale Java application
- Create, modify, and maintain frontend using JavaScript and ReactJS
- Write robust unit, integration, and end-to-end tests
- Maintain code integrity and security using tools including SonarQube

Undergraduate Course Assistant January — December 2020
University of Illinois at Urbana-Champaign *Champaign, IL*

- Refined in-class activities following POGIL (Process Oriented Guided Inquiry Learning) process
- Assisted with guiding 2 discussion sections of around 100 students through the POGIL activities using POGIL roles
- Aided students with programming assignments and theoretical concepts during weekly office hours

Undergraduate Research Intern June — August 2017
Jelinek Summer Workshop on Speech and Language Technology *Pittsburgh, PA*

- Designed and carried out an experiment on human subjects to discover how priming affects the accuracy of human online diarization
- Manipulated files from large corpora of telephone conversations to use as data (Bash Script)
- Analyzed suitability of probabilistic models to select the best candidate for representing the results (R)
- Worked on Enhancement and Analysis of Conversational Speech Team, led by Dr. Mark Liberman, University of Pennsylvania
- Collaborated with grad students and senior researchers from team to learn R and Bash, develop the plan for my experiment, and review my weekly progress

PROJECTS

ClassTranscribe Transcriptions August — December 2019

- Contributed to university-sponsored lecture video hosting website designed to improve learning for diverse students
- Gathered background information about education research and transcriptions from professors and papers
- Managed group of student transcribers who manually correct machine-generated transcriptions
- Compared corrected transcriptions to originals based on various learning criteria (Python Pandas) (SQL)