

# Conlon Renze Novak

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## EDUCATION

### Carnegie Mellon University

Bachelor of Science, Information Systems

Additional major in Human-Computer Interaction

Minor in Film and Media Studies

Pittsburgh, PA

May 2020

3.60/4.00 QPA

*Dean's List, High Honors: F16, S17, F18 Semesters*

## SKILLS & COURSES

### SOFTWARE AND PROGRAMMING LANGUAGES

Proficient: **Python, HTML, JS, CSS**, Ruby, Rails, MongoDB, SQL, Docker, Flask

Familiar: C++, Java, Android Studio, Vue.js, Redis, LabVIEW, Visual Basic, Haskell

### RELEVANT COURSES

Interaction Design Studio, Programming Usable Interfaces, User-Centered Research and Evaluation,

Application Design and Dev., Database Design and Dev., Principles of Imperative Programming,

Great Theoretical Ideas in CS (via Leap@CMU 2014), Intro. to Physical Computing

## INTERNSHIP EXPERIENCE

### Tactical Technologies Group, **Software Engineering Institute**

Pittsburgh, PA

*Machine Learning Technical Intern, Video Summarization*

Summer 2017, 2018

- Implemented machine learning algorithms for object recognition, motion tracking, and superframe segmentation to highlight relevant segments of surveillance video to human operators in real-time
- Developed Flask web application to automate TTG's ML pipeline, allowing inexperienced users to quickly have specified videos analyzed by appropriate containerized machine learning algorithms

## WORK & VOLUNTEER EXPERIENCE

### Orientation Staff, **CMU Office of Orientation Programming**

Pittsburgh, PA

*Head Orientation Counselor (HOC)*

April 2017 - Present

- 400+ hours training for and working with incoming CMU first-years to create a welcoming and supportive social environment that will successfully transition them towards academic success
- Designs and implements the Orientation program under the direction of the professional staff team while working closely with university leadership, campus organizations, and residential education staff to create Orientation staff selection, training, programming, and follow-up events

### Teaching Staff, **CMU Information Systems Department**

Pittsburgh, PA

*TA, 67-262 Database Design and Development*

January 2018 - May 2018

- Taught lab sessions, mentored student term projects, held office hours, and graded homework and exams for a class of 40+ sophomores and juniors during the spring '18 semester
- Leveraged extensive knowledge of subject areas to teach students to debug their own configurations and codebases, preventing hours of wasted development time and ensuring future workplace skills

### The ArticulaLab, **Human Computer Interaction Institute**

Pittsburgh, PA

*Lead Intern for Science Annotation, Cultural EduTech*

October 2016 - May 2017

- Designed science reasoning annotation schemes and post-experiment data collection application to analyze the effect of dialectic code-switching in educational virtual peers on elementary students
- Liaised between primary investigators, staff, and interns to monitor and report group progress

## SELECT PROJECTS & AWARDS

- *Babble* offline messaging platform, Top 30 Hack, 3 Sponsor Awards, *PennApps XVIII* 2018
- *TrailerVR* hybrid AR/VR movie metadata viewer, 1<sup>st</sup> Place Grand Prize, *Hack112* 2016
- *Teach Tiles* augmented reality educational resources, DUO Security Award, *HackCMU* 2016

## EXTRACURRICULAR ACTIVITIES

- CMU Alpine Racing and Freestyle Team, *Slalom and Giant Slalom Ski Racer*, 2018-Present
- CMU Oakland Review Literary Journal, *Prose Co-Editor and Executive Board Member*, 2016-Present
- FIRST Robotics Competition Team 4150, *Vice President and Programming Team Lead*, 2012-2015