

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

Dean's List: F16, S17 Semesters

Pittsburgh, PA

May 2020

3.49/4.00 QPA

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

WORK & VOLUNTEER EXPERIENCE

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

Pittsburgh, PA

First-Year Orientation Leader (OL), Donner House

April 2017 - August 2018

- 400+ volunteer 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
- Work closely with dormitory RAs and other members of orientation staff to help first-years navigate difficult choices, situations, and classes via personal relationships beyond orientation week

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

Pittsburgh, PA

Machine Learning Technical Intern, Video Summarization

May 2017 - August 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

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, **CMU 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
- *CtrlCore* mixed reality smart-home interface, Rockwell Automation Award, *TartanHacks* 2017
- *TrailerVR* hybrid AR/VR movie metadata viewer, 1st 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, *Executive Board Member and Prose Co-Editor*, 2016-Present
- FIRST Robotics Competition Team 4150, *Vice President and Programming Team Lead*, 2012-2015