Alexander Martin

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EDUCATION

University of Rochester   **Rochester, New York**
Bachelor of Science, Computer Science   *Anticipated May 2024*
   Major GPA: 3.8 out of 4.0; GPA: 3.46 out of 4.00; Dean's List

RESEARCH EXPERIENCE

FACTS Lab   *Rochester, New York*
Researcher   *May 2022 – Present*

   RAMS 2:

- Constructed a corpus consisting of ~800 FrameNet frames to facilitate supervised learning of broad-coverage document level role extraction models.
- Coordinated Amazon Mechanical Turk launches for 3 stages of annotator selection.
- Calculated annotations' agreement with gold annotations IAA metrics.

PROJECTS

Applied Instance Segmentation
Machine Vision

- Engineering a platform to automate visual home inspections. The system uses a machine vision model with instance segmentation as in Abdulla, 2018.
- Developed a Computer Vision Model by modifying Mask R-CNN to identify common problems discovered in inspection or during home renovation.
- Received the Make it Happen Grant from the University of Rochester.

LEADERSHIP ACTIVITIES

University of Rochester, Computer Science Department   **Rochester, New York**
Teaching Assistant – Data Structures and Algorithms (CSC 172)   *Jan 2022 – May 2022*
Teaching Assistant (Workshop Leader) – Intro to Computer Science (CSC 171)   *Aug 2021 – Dec 2021*
Math and Computer Science Tutor   *Feb 2021 – May 2022*
Computer Science Undergraduate Council: Internal Communications Chair   *Feb 2021 – May 2022*
Dandy Hacks: Finance Manager and Logistics   *Aug 2021 – May 2022*

University of Rochester, Residential Life   **Rochester, New York**
Resident Advisor (RA)   *Aug 2022 – Present*
D'Lion (First Year Staff)   *Aug 2021 – May 2022*

University of Rochester, Clubs and Activities   **Rochester, New York**
STEM Initiative: Curriculum Board Member   *Feb 2021 – Present*
Men's Ice Hockey: Assistant Captain   *August 2020 – Present*

SKILLS

Programming languages:

   Java, Python and Python ML libraries, C, SQL, MATLAB, Octave; HTML/CSS, JavaScript, NoSQL, Kotlin, PHP; R

Other:

   GIT, Raspberry Pi, Android Studio, LaTeX, MongoDB, Notebooks, Amazon Mechanical Turk

Courses: NLP w/ Classification and Vector Spaces

Interests: NLP, NLU, machine vision, long duration autonomy, algorithmic efficiency