TESSA NEWMAN-HEGGIE

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EDUCATION

Carleton College   *Northfield, MN*
- Bachelor of Arts in Computer Science and Linguistics; Minor in French   *(Anticipated) June 2021*
- GPA: 3.89 ; Dean's List (2018-2019, 2017-2018)
- *Relevant Coursework*: Data Structures, Programming Languages, Social Computing, Math of Computer Science, Calculus II, Software Design, Computability and Complexity, The Hardware/Software Interface
- Study abroad: Center for University Programs Abroad (*Paris, France; Rabat, Morocco*)   *March – June 2019*

PROFESSIONAL EXPERIENCE

Software Engineer Intern (Remote), Shift Interactive, *West Des Moines, Iowa (Remote)*   *June – August 2020*
- Built full-stack Ruby on Rails Applications remotely with an engineering team employing Agile and TDD
- Performed in the top 50% of company engineers based on several productivity and communication measures.
- Executed development of new website features based on client feedback.

Research Intern, Computer Science Laboratory at *Université Paris Sud, Orsay, France*   *June – July 2019*
- Designed an NLP system in Python for a chatbot and created 4000+ unique English phrases to train a virtual patient Lifelong Learning AI system used by medical school students around the world.
- Enhanced user experience of supervisors' chatbot by testing software and providing written feedback.

TECHNICAL PROJECTS

Software Engineering Project Lead, Hack 4 Impact (club**)**   *September 2020 - present*
- Design and build a full stack app for the Movemeant Foundation with a team of fellow students using ReactJS

Ruby for Good (Remote Conference)   *September 2020*
- Developed full-stack Ruby on Rails open source applications for non-profit companies with a team of engineers
- Set up Pundit policy checks and other backend configurations for the Chicago Tool Lending Library website

CS257: Software Design   *January – March 2020*
- Built a website and API that retrieved information from a database, using HTML, CSS, SQL, Python and Flask
- Employed test driven development and Agile principles while collaborating with teammates to meet deadlines

CS251: Programming Language Design and Implementation   *September – November 2019*
- Built a C interpreter for Scheme, including extensive testing and features that enhance user experience.
- Collaborated with a team to solve complex coding problems to meet multiple deadlines.

ADDITIONAL EXPERIENCE

Computer Science Department Lab Assistant, Carleton College   *September 2020 – present*
- Guide computer science students through coding projects and optimize code design

Computer Science Student Departmental Advisor, Carleton College   *September 2020 - present*
- Advise students on Computer Science classes by holding weekly office hours.

New Student Week Leader, Carleton College   *September 2018 and 2019*
- Facilitated group discussions and presentations on diversity, consent and sexuality, and mental wellbeing

SKILLS

Proficient in: Ruby on Rails, Python, C
Experience with: Javascript, ReactJS, Scheme, Java, AWS, HTML, CSS, Bootstrap, Flask, Django
Technical Platforms: Postgres, SQL, CircleCI, Atlassian Jira, GitHub, IntelliJ, Heroku, Github Pages