Elena Swecker

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Education

Carnegie Mellon University

Pittsburgh, PA

May 2022 - QPA 3.65

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
CONCENTRATION IN COMPUTATIONAL BIOLOGY

Work Experience

Duolingo Pittsburgh, PA

SOFTWARE ENGINEERING INTERN

May 2021 - Aug 2021

- · Worked with New Writing Systems team on improving learning experience for users in non-Latin script courses
- Developed web frontend using React/Redux for team's primary feature: guided lessons teaching learners a new writing system as well as an interactive chart of the characters which visualizes learner's progress (in use by thousands of learners daily)

Carnegie Mellon University, School of Computer Science

Pittsburgh, PA

FUNDAMENTALS OF PROGRAMMING AND COMPUTER SCIENCE: ASSOCIATE HEAD TEACHING ASSISTANT

Jan 2019 - May 2021

- Managed 50 TAs and 500 students per semester; taught bi-weekly lectures (alternative for students in far time zones during pandemic)
- · Provided input on course structure, content, policies, and design of quizzes, exams, and homework assignments
- Orchestrated a course-wide hackathon, Hack112, involving 200+ students by coordinating the activities of 10 subteams and 50 TA volunteers

Splunk Remote Work

SOFTWARE ENGINEERING INTERN

May 2020 - Aug 2020

- Worked with Metadata Catalog team on microservice of cloud native product that helps make sense of data managed/accessed by Splunk
- Researched/implemented ways to utilize automatic code generation to reduce overhead when adding new endpoints to microservice

Sandia National Laboratories

Livermore, CA

COMPUTATIONAL BIOLOGY R&D INTERN

May 2019 - Aug 2019

- · Designed and implemented a fully automated pipeline in Python that collects and updates local genomes in an organized file structure
- Developed a suite of programs to compile tmRNA information into MySQL databases backing the Sandia bioinformatics website

Magee Womens Research Institute (MWRI)

Pittsburgh, PA

RESEARCH INTERN

Aug 2017 - May 2018

- · Spearheaded project to investigate mutations causing errors in spermatogenesis in C. elegans, under guidance of Dr. Judith Yanowitz
- Discussed research challenges/progress in weekly meetings with MWRI coworkers; ran MWRI booth at Pittsburgh's March for Science
- · Organized and led hands-on activities with 7th grade class to share excitement about C. elegans and biology research

Projects

Co-Designing Effective Human-Algorithm Collaborations for Suicide Risk Assessment

Remote Work

Research Project with CoALA Lab in CMU HCI Institute (RESEARCH PAPER)

Spring 2021

· Conducted interviews where individuals generated and evaluated new ideas for how clinical decision support systems should be designed

Alexa MD Stanford, CA

Submission at TreeHacks (DevPost)

Feb 2020

· Developed back-end of symptom-disease relationships with Neo4j in our intelligent vocal assistant aimed at diagnosing medical conditions

ForeSight Philadelphia, PA

Top 10 Winner out of 251 Submissions at PennApps XX (DEVPOST)

Sept 2019

Implemented visual object detection with AWS SageMaker in a haptic feedback system to assist visual impaired individuals

Skills

Proficient: Python, C/C++, Typescript, React/Redux, MySQL

Basic: Java, SML, Neo4j, AWS (SageMaker), Django, Javascript

Awards_

National Merit PPG Foundation Community Scholarship
Westinghouse Women in Nuclear Scholarship
NCWIT Award for Aspirations in Computing
Apr 2018
Apr 2018