

Eliot Seo Shekhtman

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Education

Cornell University, Ithaca, NY

- Bachelors of Science, Computer Science
- Related courses:

Introduction to Analysis of Algorithms

Introduction to Computer Vision

Object Oriented Programming and Data Structures

Discrete Structures

Bethlehem Central Senior High School, Delmar, NY

Practical Tools for OR, ML, and Data Science

Computational Linguistics

Networks

C++ Programming

May 2022

Cumulative GPA: 3.88

Jun 2018

Experience

Research Assistant, Cornell University, Life History Lab

Jun 2019 - present

- Wrote Python scripts under supervisor Dr Gonzalez to implement the Balloon Analog Risk Task (BART) for fMRI, and collecting data on risk seeking and risk averse behavior of participants, working in an agile-development environment
- Processing participants and collecting data using the BART, Stroop, and Cyberball tasks in the Cornell fMRI scanner to be analyzed in the Spring
- Wrote scripts in R to clean data and compare scores between various measures

Research Assistant, State University of New York at Albany, Forensic Chemistry Lab

Jun 2016 - Aug 2017

- Wrote MATLAB scripts under supervisor Dr Lednev to conduct Singular Value Decomposition (SVD) analysis of cell images to classify cellular patterns characteristic of lead toxicity
- Prepared buffer solutions, grew both bacterial cells and human kidney cells, and tested/observed the effects of lead and EDTA on the latter, using light microscopy

Instructor, UCode, Ithaca, NY

Jun 2019 - Aug 2019

- Developed a curriculum for and taught Python and analytical thinking to elementary and middle schoolers
- Developed interpersonal communication skills

Projects

Have You Eaten Yet?

Jan 2020 - present

- Developing an Android app as lead developer to create a platform for displaced people to meet and share food

Programmable OCaml Calculator (VarLog)

Oct 2019 - Jan 2020

- Used test-based development to design and develop a terminal-based calculator in OCaml with a REPL, equation solvers, and graphing with strong attention to detail
- Built an interpreter for an imperative Turing-complete Obj-Oriented language, readable from files or through the REPL
- Worked in a team of three as team lead to meet project goals and exhibited cooperation, using GitHub for source control

ClickerQuest

Jun 2017 - present

- Taught myself Java, XML, and how to navigate Android development using the Android Studio IDE, exhibiting independence
- Created an Android game full-stack as sole developer where the player defeats enemies and uses the money dropped to upgrade stats, contains many different stages, creatures, weapons, resources, etc for hours of playtime

Skills

Programming Languages: Java, C++, Python, OCaml, Bash, R, MATLAB, XML, SQL (MySQL, SQLite), VBA, HTML, CSS

Technologies: Eclipse, Netbeans, Visual Studio, Visual Studio Code, Android Studio, Anaconda, PsychoPy, R Studio

Natural Languages: English, Russian, Spanish

Extracurriculars

Predictions Team Member, CUSD Currents Software Subteam

Feb 2020 - present

- Designing an algorithm to predict room usages and optimize energy consumption by the HVAC system in Upson Hall

Social Chair, Cornell UnderLings

Jan 2020 - present

- Plan activities and social events, attend weekly eboard and general meetings, help plan and run the CULC
- Created the Cornell UnderLings website from scratch using HTML and CSS

Member, Association of Computer Science Undergraduates

Oct 2018 - present

President, Linguistics Club

Oct 2017 - Jun 2018

- Took the initiative to raise awareness for Linguistics, founded and organized weekly meetings as club president

Varsity Cross Country; Indoor, Outdoor Track; Varsity Diving

Aug 2014 - Jun 2018

- Practiced 14 hours every week throughout High School, exhibiting persistence

Volunteering

Coach, Delmar Track and Field

Mar 2017 - Jun 2018

- Helped coach rising track athletes, assisting in activities and logistics