Alexander Kassouni

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EDUCATION

University of Pennsylvania, B.S.E. in Computer and Information Science   May 2022
GPA: 3.75, Dean's List

COURSEWORK

CS: Algorithms, Operating Systems, Compilers, Computer Architecture
Math: Advanced Linear Algebra, Abstract Algebra, Stochastic Processes, Game Theory, Probability Theory

SKILLS

Advanced: Java, C/C++, JavaScript, Python
Proficient: Common Lisp, Android, React, JQuery, Django, PostgreSQL, HTML/CSS

WORK EXPERIENCE

Smirta Innovations, Software Development   May – Present 2020
CareBot:
- Developer of CareBot Web, a React app for directing patients to appropriate local care facilities based on their symptoms
- Integrated an interactive chat bot for diagnosis of user's symptoms
- Project live demoed to potential customers
deepPath:
- Worked on deepPath, a Django web app for pathologists to manage and annotate biopsy images
- Primary responder to customer bug reports and implemented 4 major feature requests

CIS 262 (Automata, Computability, and Complexity), Teaching Assistant   Fall 2020
- Create rubrics for standardized grading of homework and exams
- Hold weekly 1:1 office hours, helping students with the material

Fang-Yen Lab, Software Development   February – August 2019
- Worked on WormPicker, a patented robotic arm capable of arranging microscopic nematodes (*C. elegans*) on petri dishes
- Developed computer vision algorithms for segmentation and tracking of *C. elegans* using C++ and the OpenCV library
- Automates a previous bottleneck on throughput of *c. Elegans* genome research

Hawaii Space Flight Lab, Summer Intern   June – July 2017
- Developed a Qt user interface for the mission design tool component of the NASA EPSCoR COSMOS project, an open source project for the planning and executing of launches

LEADERSHIP AND VOLUNTEER EXPERIENCE

Middle School Debate Coaching   May 2018 – May 2020
- Coached and mentored parliamentary middle school debate team
- Managed and organized 40+ parent volunteers to satisfy each tournament's judging requirement