Spencer Huang

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Education

Allegheny College   Meadville, PA
Bachelor of Science Degree--Major: Applied Computing | Minor: Mathematics/Economics   2017 - 2021
Coursework: Software Engineering, Robotic Agents, Artificial Intelligence, Algorithm Analysis
Leadership: President of Fencing Club, President of Computer Building Club, Technical Leader for Computer
Science Department

Carnegie Mellon University--Heinz College   Pittsburgh, PA
IT Lab: Summer Security Intensive   Summer 2019
Coursework: Data Management and Security, Ethical Penetration Testing, Introduction to Information Security

Project Experience

[python | machine learning] Smile Detector   Spring 2019
- Developed a tool that detects smiles with distinct facial recognition through a webcam
- Used haarcascade, OpenCV, related JSON files to acquire data and dropbox to store the data

[java | testing] Dungeon Crawler Game   Fall 2018
- Developed a dungeon crawler game that could be played in the command lines
- Used junit testing suite and gradle to establish confidence and execute the code, respectively

Skills

IT: Python (w/ framework of Django, Flask, Keras, LSTM), Java, JavaScript (w/ framework of React), HTML, SQL

Work Experience

Eanovation   San Mateo, CA
Platform for home owners in the SF Bay Area to get connected with home remodelers   March - Aug 2019
Full Stack Developer Intern
- **[web design]** Utilized React to build new looks for the company's website which increased traffic by 30%
- **[web development]** Improved user experience through enhancement/creation of website visuals and user functionalities using Django and React
- **[maintenance]** Identified/fixed bugs for the website through constant testing and usage of all functionalities

Allegheny College   Meadville, PA
Undergraduate Research Assistant   June - Aug 2018
- **[collaboration]** Collaborated closely with an Allegheny College faculty to create a learning algorithm, using TensorFlow, that predicted a user's health based on live feedback from wearable sensors.
- **[research]** Conducted research through past related research papers/books and applied findings to algorithm
- **[applied machine learning]** Used Keras along with LSTM network to create a model predictive algorithm

Resident Advisor   Aug 2018 - Present
- **[communication]** Applied interpersonal skills and para-counselor to build a community with residents while advising them on personal and academic issues.
- **[planning and management]** Supervised a floor of 12 residents and organized a diverse array of programming events that provide information about diversity, academics, engagement, and health.
- **[report writing and documentation]** Handled crisis resolution along with proper documentation.

Volunteer Experience

Pioneer of Engineering   Berkeley, CA
Mechanical Challenge Designer   July - August 2016
- Researched on real world problems to design a viable mechanical challenge for high school students.
- Assembled prototypes through diverse experiments and created a manual for presenting the challenge