

Spencer Huang

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EDUCATION

Allegheny College, Meadville, PA

Bachelor of Science: Applied Computing

May 2021

GPA 3.75/4.0

Minor: Mathematics and Economics

- Coursework: Software Engineering, Robotic Agents, Artificial Intelligence, Algorithm Analysis, Data Analytics, Computer Organization, Operating Systems, Programming Languages
- Leadership: President of Fencing Club, Vice President of Computer Building Club

Carnegie Mellon University—Heinz College, Pittsburgh, PA

June - Aug 2019

IT Lab: Summer Security Intensive

- Coursework: Data Management and Security, Ethical Penetration Testing, Intro to Information Security
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PROJECT EXPERIENCE

[python | facial recognition] Smile Detector

Spring 2019

- Developed a tool that detects smiles through webcam using OpenCV
- Used haarcascade data file as training data and Dropbox API to store results

[java | testing] Dungeon Crawler Game

Fall 2018

- Developed a command line based game following object oriented programming principles
 - Used JUNIT testing suite and Gradle to establish confidence and execute the code, respectively
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WORK EXPERIENCE

Full Stack Developer Intern, Eanovation (*start-up home remodeling platform*), San Mateo, CA March - Aug 2019

- **[web design]** Utilized React to build a new UI for the company's website which increased traffic by 30%
- **[web development]** Improved user experience through enhancement/creation of user functionalities, such as resetting password, using Django and React
- **[maintenance]** Identified and debugged website issues through constant testing

Undergraduate Research Assistant, Allegheny College, Meadville, PA

May - Aug 2018

- **[collaboration]** Collaborated with an Allegheny College faculty member to create a learning algorithm, using TensorFlow, that predicted a user's wellbeing based on live feedback from wearable sensors.
 - **[research]** Conducted research through past related research papers/books and applied findings, such as neural network applications, to algorithm
 - **[applied machine learning]** Used Keras with LSTM layer to create a model predictive algorithm
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ADDITIONAL EXPERIENCE

Technical Leader, Computer Science Department, Allegheny College

Aug 2019 - Present

- **[guidance]** Introduced thought provoking solution paths for students to help them understand computer science concepts
- **[open discussions]** Initiated meaningful computer science related conversations between students
- **[administrative support]** Supported professors in regulatory laboratory and practical sessions

Resident Advisor, Allegheny College, Meadville, PA

Aug 2018 - Present

- **[communication]** Applied interpersonal skills 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 provided information about diversity, academics, engagement, and health
 - **[report writing and documentation]** Handled crisis resolution along with proper documentation
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SKILLS

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

Machine Learning/AI: Linear Regression, Neural Network, Facial Recognition (w/ Haar Cascade)

Database: SQL (MySQL, PostgreSQL)