

Clement Ou

650-942-4296 | clement.h.ou@gmail.com | [linkedin.com/in/clementou](https://www.linkedin.com/in/clementou) | github.com/clementou | Palo Alto, CA

EDUCATION

- **Carnegie Mellon University** Pittsburgh, PA
Bachelor of Science in Statistics and Machine Learning *May 2025*
 - **Relevant Coursework:** Principles of Imperative Computation, Algorithms and Advanced Data Structures, Introduction to Machine Learning, Natural Language Processing, Probability and Statistics II, Statistical Computing, Statistical Graphics and Visualization
 - **Activities:** Society of Asian Scientists and Engineers, Students Using Data for Social Good

EXPERIENCE

- **Jabil Inc.** San Jose, CA
Test Engineer *Sep. 2022 – Apr. 2023*
 - Spearheaded manufacturing projects for several prominent tech companies, overseeing multiple projects from prototyping to market launch
 - Facilitated seamless communication of issues and solutions between manufacturing team and overseas engineering teams.
 - Pioneered implementation of cutting-edge test line monitoring software, streamlining operations by integrating logging, failure analysis, and reporting into a unified tool.
 - Directed a test site and supervised a team of three operators, overseeing all testing, debugging, and resolution of customer-related failures.
 - Further details are restricted due to NDA obligations.

PROJECTS

- **Emotion Detector:** Collaborated with a team to develop a deep learning-based emotion detector web application that differentiates between 6 human emotions with an accuracy of 70%.
 - Employed the YOLO neural net, custom-trained for the specific dataset, to achieve desired model performance.
 - Collected over 50,000 images using OpenCV and Bing API, laying the groundwork for an expansive dataset.
 - Automated the labeling process using OpenCV, enhancing efficiency and consistency in data annotation.
 - Designed infrastructure for labeling and categorizing training/testing data.
 - Utilized AWS EC2 for efficient cloud-based model training.
 - Deployed application on the web using the Django framework, optimized for scalability and user accessibility.
- **IoT Door Lock:** Designed and implemented an IoT Door Lock system paired with a dedicated Android app, showcasing end-to-end development expertise.
 - Fabricated lock and designed housing for device.
 - Executed precise soldering of lock servo and Raspberry Pi, connected to a 9V battery through a breadboard.
 - Engineered an Android App with an intuitive UI, biometric authentication, and scripts for Raspberry Pi internet connectivity.
- **Home Linux Server:** Configured and optimized an Ubuntu server.
 - Hosted applications such as Nginx, Bitwarden, and Plex for personal and family use.
 - Explored web servers, networking, and containers while crafting automation scripts for optimization.

TECHNICAL SKILLS

- **Languages:** R, Python, C/C++, Java, Javascript, SQL, HTML/CSS
- **Developer Tools:** Linux, Nginx, Git, Docker, GCP, AWS