

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

PROFESSIONAL SUMMARY

- Junior at Carnegie Mellon University majoring in Machine Learning and Statistics, seeking a challenging software engineering internship. Skilled in full-stack development and keen to apply my analytical skills in a practical setting.

EDUCATION

- **Carnegie Mellon University** Pittsburgh, PA
Bachelor of Science in Statistics and Machine Learning May 2025
 - **Relevant Coursework:** Algorithms and Advanced Data Structures, Computer Systems, Machine Learning, Artificial Intelligence and Representation, Probability and Statistics, Statistical Computing, Statistical Graphics
 - **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 projects for several tech companies, overseeing multiple projects from prototyping to launch
 - Facilitated seamless communication of issues and solutions between manufacturing and overseas engineering.
 - Pioneered implementation of cutting-edge test line monitoring software, streamlining operations by integrating logging, failure analysis, and reporting into a unified tool, reducing errors by 20%
 - Managed a test site and supervised a team of three operators, overseeing all testing, debugging, and resolution of customer-related failures.

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 with OpenCV and Bing API, laying the groundwork for an expansive dataset.
 - Developed and streamlined data labeling and categorization infrastructure with OpenCV and custom scripts, enhancing annotation efficiency and consistency, and leveraged AWS EC2 for robust cloud-based model training.
 - Deployed application via 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.
 - 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 cloud 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, HTML/CSS, SQL
- **Developer Tools:** Linux, Nginx, Git, Docker, GCP, AWS, PyTorch, Matplotlib, ggplot2