GitHub: dchenam
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Portfolio: dennisychen.com

# DENNIS CHEN
**Aspiring Software Engineer, US Citizen**

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## WORK EXPERIENCE

| Data Science, Intern | Dayta.AI | Jun. 2018 – Sep. 2018 |
|---|---|---|

Video Analysis Full Stack Web App
- Lead development of a machine-learning based web app by writing Flask microservices and deployed it on AWS.
- Implemented RESTful APIs for speech-text analysis, eye contact, and emotion recognition reporting.
- Conducted data cleansing/preprocessing and wrote automated tests for code reliability.
- Enabled support for auto-scaling video processing workers by using Docker and integrating Redis message queues.

Person Re-Identification Engine
- Increased person re-identification accuracy by 50%, implementing a new computer vision algorithm in Tensorflow.
- Facilitated understanding of people foot traffic by creating a heatmap tool using Python and OpenCV.

| Software Engineer, Intern | Epoxsea | Jan. 2017 – Jul. 2017 |
|---|---|---|

- Designed software architecture for an underwater robot (ROV); lead development for 4 team members.
- Developed primary control and automatic stability (PID) modules using C/C++ and Robot Operating System (ROS).
- Wrote embedded software on STM32s in C to collect measurements and relay them to a Linux control box.

## EDUCATION

| Hong Kong | Hong Kong University of Science and Technology | Sep. 2015 – Nov 2019 |
|---|---|---|

- B.S.E. in Computer Science with Minor in Robotics, Graduated Nov 2019.
- Relevant Coursework: Applied Deep Learning, Algorithms, Computer Architecture, Object-Oriented Programming, Cloud Computing, Software Engineering, Big Data Mining and Management, NLP, Machine Learning.

## SOFTWARE PROJECTS

**Personal Website:** dennisychen.com (for additional information and projects)

**Travel Planning App**
- Developed a platform using Django and React for creating trip itineraries and sharing travel locations.
- Built features like URL-sharing, token authentication, and anonymous trip creation.
- Utilized Python, Django, JavaScript, React, Redux, PostgreSQL, and Docker.

**Anime GAN**
- Trained and debugged a neural network to generate faces of anime characters and doodles.
- Leveraged knowledge in Python, deep learning, and web scraping.

**Datathon Text Classification Challenge**
- Wrote text classification and topic classification models for Weibo posts and scrapped travel blogs.
- Utilized Python, Tensorflow, and FastText and was a finalist of the POLYU x RADICA Datathon out of 30 teams.

## HONORS AND AWARDS

- **Finalist (2018):** POLYU x RADICA Big Datathon, 4 out of 30 teams.
- **Overall Champion (2017):** Awarded 1st place for the international MATE ROV Competition out of 25 teams.
- **1st Place (2017):** Awarded 1st in the 2017 HK regional underwater robot competition out of 6 teams.

## Skills

- **Programming:** Python, SQL, C++/C, Golang, HTML/CSS, JavaScript
- **Libraries and Frameworks**: Pandas, Matplotlib, Numpy, SciPy, Sklearn, Django, Flask, Tensorflow, Pytorch.
- **Tools**: Docker, Linux, GCP, AWS, Git
- **Languages**: Native English, Fluent Mandarin