Oliver Mathias

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Education

BACHELOR OF SCIENCE | PROVOST SCHOLAR: GPA 3.67 | 2020 | CHAPMAN UNIVERSITY

- **Major:** Business Administration
- **Minor:** Computer Science

Recently Completed Projects

AUTO AUDIO

- Released a project that uses multiple open source libraries and incorporates a pre-trained Variational Auto-Encoder to turn PDFs into Audiobooks.

DOGGY DOOR

- Trained a Deep Convolutional Neural Network on over 300,000 images of 100 different dog breeds to help potential adopters gain further insight into a dog when looking to adopt.

UTOPIA VR

- Developed a VR web browser that incorporated the likes of Wikipedia, Nike.com, Youtube, and a player store to explore a new of method of interaction with the internet.

Work Experience

RESEARCHER | 3D PRINTING MEDICAL IMAGES & COMPUTER GUIDED LASER TUMOR ABLATION | 2019 - CURRENT

- My Partner Greg Tyler and I are currently systems that segment tissues from medical image data, 3D print multi-material anatomical models, and can ablate simulated tumors from the prints using a fiber optic laser system.

APPLIED DEEP LEARNING RESEARCH INTERN | CHAPMAN BRAIN INSTITUE | 2019 - CURRENT

- Developing pipelines and deep learning models for camera, lidar, and radar data in a simulated VR environment to ultimately incorporate pupillometry (eye-tracking) into self-driving cars.

OPERATIONS LEAD INTERN | UDAPTIVE | 2017 - 2019

- As Operations Lead, I both directed and developed core features, UI designs, and marketing efforts that built the foundation for Udaptive's smooth transition to a new platform and MAU increase of 3X in 2yrs.

BUSINESS RESEARCH INTERN | KLICKLY| SUMMER 2016

- Interned at Klickly, Venice; conducted market research to target pain points in the PPC ads industry and developed a 'gamification' strategy for their 'in-ad' shopping modules.

Skills

Languages: Python, C++, C (Arduino), C# (VR Development), Java, HTML5, CSS 3
Technologies / Frameworks: Bootstrap, Version Control, Linux, Apache, Keras, Unity

Interests

Deep Learning, Boxing, Hiking, Making Music, Automating Tasks (like resume writing), 3D Printing, Entrepreneurship