

# Derek Chapman MCS-DS

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## Education

**University of Illinois at Urbana-Champaign (UIUC)**

Master of Computer Science in **Data Science (MCS-DS)**

Graduated December 2021 with **GPA of 4.0**

Coursework in: Statistics, Data Mining (Patterns), Text Mining, Deep Learning,  
Statistical Learning, Computer Vision, Data Visualization

Additional classes through University of Michigan and John Hopkins University in  
Pandas, Numpy, Visualization

Certified Google Apps Administrator

Licensed teacher in Special Education and Social Studies

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## Work Experience

Setup/manage **950 user** Google Apps **domain**

Sole support for campus of 1,500 devices with mixed OS (Chrome, MacOS, iOS, Win)

**Head of 32-person** department for 4 years

**Technology Coordinator** - *Wahiawa Middle School June 2015 – Present*

- Increased devices in student hands by 650% in 15 months.
- Created a ticket tracking system that helped reduced wait times by an estimated 90% in 6 months.
- Spearheaded a new email system with voluntary adoption that grew to include 86% of staff within 24 months.
- Implemented tracking and policy enforcement for all school owned devices.
- Some of my other duties include direct support/repair, purchasing, asset management, and advising the school's leadership on issues involving technology.

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## Recent Projects

Sepsis Prediction - Deep Learning for Health Care

- Created a state of the art **LSTM Deep Learning** model to predict Sepsis in ER patients far earlier than standard clinical tools.
- Cleaned and organized massive MIMIC-III dataset using Numpy, Pandas, and file streaming.
- Liaison between team members in four different time zones. Led team coordination and work integration.

Out of Order Book Finder

- Created an autonomous vehicle that incorporated Obstacle Avoidance, **Computer Vision**, and a connection to our AWS instance.
- Used **OpenCV** and **Pytesseract** to find and read labels from book spines.

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## Activities

**President Board of Directors for Nob Hill AOAO** *January 2019 – Present*

Served as a Director, then Treasure, and then elected as President of the association.

Association is largest in central Oahu valued over \$95 million dollars.

**Presenter/Trainer**

I have given a number of presentations and trainings in a variety of topics for various groups. These have ranged from single topic focused trainings with small groups to creating and running a full day camp with a dozen presenters for an entire school staff.

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