

Nicholas Chung

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EDUCATION

Masters in Computer Science, UCI (GPA: 3.85) Oct. 2020 - Dec. 2021

- Completed courses: Data Structures, Machine Learning and Data Mining, Neural Networks and Deep Learning, Fundamentals of Algorithms

Bachelors in Electrical Engineering, UCLA Sept. 2013 - Jun. 2017

PROJECTS

Obi Wan Coursenobi (Front-end), UCI Apr. 2021 - May. 2021

Capstone project and web application using MERN stack to visualize academic course dependencies

- Designed webpage layout and used Agile methodology to complete project in 3 sprints
- Implemented directed network graph using D3.js to illustrate class pre-requisite dependencies
- Developed front-facing application to capture user interactions and present web features complementary to the network graph

Timbre Transfer, UCI Jan. 2021 - Mar. 2021

Deep learning project utilizing CycleGAN to change the timbre of a melody

- Pre-processed note samples from Magenta NSynth database to generate spectrogram dataset
- Modified existing architecture to accept single-channel inputs and to mitigate checkboarding

Stock Prediction, UCI Jan. 2021 - Mar. 2021

Deep learning project using LSTM layers to predict stock prices and compile a portfolio

- Reduced 20GB of stock transaction data and grouped transactions by ticker symbol
- Predicted overall stock changes for the following month using fundamental data
- Constructed LSTM model and used it in conjunction with optimal stopping to decide on best price

EXPERIENCE

Proposal Analyst, Northrop Grumman Aug. 2019 - Sept. 2020

- Developed a Visual Basic tool set to automate the requirements decomposition process
- Managed multiple multimillion-dollar competitive proposal and white paper efforts
- Coordinated with proposal teams to revise drafts and finalize desktop publishing activities

Sensors Engineer, Northrop Grumman Jul. 2018 - Aug. 2019

- Integrated cRIO and PC hardware with high-speed centrifuge to gather metrics on accelerometers
- Developed SQL and MATLAB scripts to mine Oracle database and analyze gyroscope parameters
- Collaborated with off-site and on-site teams to manage scheduling through GANTT charts

Embedded Software Engineer, Northrop Grumman Jul. 2017 - Jun. 2018

- Developed a MATLAB tool set to automatically generate a high-level systems interface diagram
- Generated bi-directional traceability matrices using DOORS
- Compiled and peer-reviewed software design documents

SKILLS

- **Software:** C++, Python, SQL, MATLAB/Simulink, VBA, Git, LabView, LaTeX, HTML/CSS, DOORS
- **Hardware:** CompactRIO, 3D printing, soldering

Latest version at https://github.com/nickchung114/LaTEX-Resume/blob/master/Nicholas_Chung.pdf