

EDUCATION	Hong Kong University of Science and Technology, <i>Bachelor of Engineering</i> , Industrial Engineering, First Class Honours Concentration: Financial Engineering; Minor: Mathematics Thesis: An Analysis of Hierarchical Portfolios Advisor: Daniel Palomar	2017-2021
SKILLS	<i>Computer Languages:</i> Python, R, Typescript/Nodejs, Go, SQL, Bash/shell. <i>Operating Systems:</i> Linux, Windows, FreeBSD. <i>Other:</i> Version control (git), LaTeX.	
EXPERIENCE	<i>Full Stack Software Engineer</i> Unnamed Startup Company <ul style="list-style-type: none">Technologies: MongoDB, Postgresql, React, React Native, Django (DRF), AWS S3, Heroku. <i>Software Engineering Intern</i> J.P. Morgan <ul style="list-style-type: none">Worked on Social Good Project; designed and implemented full stack application for consolidating information for NGO.Technologies: MongoDB, Express, React, Node.js, AWS (EC2), Bitbucket, Jira. <i>Data Science Intern, Risk Division</i> Société Générale <ul style="list-style-type: none">Implemented neural network and tree-based models for time series classification using novel feature extraction techniques such as Gramian Angular Field.Worked on internal web tools for visualization and monitoring market risk.Technologies: Python, Tensorflow, Flask, scikit-learn, React, Typescript. <i>Analyst Intern, Aviation Weather Services Department</i> Hong Kong Observatory <ul style="list-style-type: none">Created automated processes for performing noise reduction on raster (Grib) data, as well as automating accuracy reporting for existing thermodynamics models.Implemented neural network model for lower/medium atmospheric level weather forecasts.Tools/technologies: R, Python, Pytorch, scikit-learn.	Apr 2020-Jan 2021 Jul 2020-Aug 2020 Dec 2019 - Feb 2020 Jun 2019-Aug 2019
PROJECTS	<i>hierarchcialPortfolios</i> <ul style="list-style-type: none">R package for hierarchical clustering based portfolio allocation methods. Based on work by Lopez de Prado (2016) and Raffinot (2017). <i>Video Background Separator</i> <ul style="list-style-type: none">Web app for extracting background (and foreground) images from video files using robust PCA for recovery of low rank matrices based on Wright et al. (2009).Built using Flask, OpenCV, Numpy. Related project can be found here. <i>CH-Term</i> <ul style="list-style-type: none">Lightweight terminal emulator for linux operating systems written in C++.Inspired by rxvt-unicode and has XIM support, 256 colors/true colors, and multiple fonts.	
EXTRA-CURRICULAR ACTIVITIES	Prof. Raymond Cheung Memorial Scholarship, Recipient 2021, Hong Kong Techathon Champion (Big Data and Fintech Category) 2019, JPMorgan Code for Good (Hackathon) Finalist (2019), CEMC Canadian Computing Competition District Champion (2017), CEMC Euclid Distinction (2017), UKMT Senior Math Challenge Gold (2016)	