**Interests Page**

* Enjoy exploring and working on coding/programming projects. Here are some that I did on my own-time. some I hope can be beneficial to my professional work or at least the skills I learnt can be transferrable to my current work)
  1. **Self-learning**
* Some of the learning that I did at my own time where some that had helped me to do some of the personal projects.
  1. **Associate Data Scientist in Python Career Track**
  + Form DataCamp <link to DataCamp website> – skills needed for data scientists, from data manipulation to machine learning.
  + Aspiration to learn: expand the coding/programming skills to solve more general and diverse data problem – (my work is only focused on life insurance as an actuarial working in life insurance).
  + Realised the coding/programming skills learnt can be used to develop tools in my work (e.g. processing large files and faster alternative to excel model).
  + Status – completed in Aprill 2023.
  1. **The Odin Project (JavaScript path)**
  + Open-source curriculum <link to TOP github page> for learning full-stack web development.
  + Aspiration to learn: was finding ways to add UI to my python model since web-technology is more developed in this aspect. Also think it is useful to develop web-based tool that can used cloud-tech in addition to building desktop-only tools
  + Has exposed me to a lot more technology which I find it interesting – such as JavaScript, html, css, gituhub.
  + Status – on-going.

1. **Personal Projects**
   1. **Personal Webpage**
   * Develop from scratch using html/css/javascript. Also using Figma to draft the design of the webpage before coding.
   * Hope to use my own personal page to share my work experience and personal interest – where I can have the flexibility to perosnalised it instead of using third party social media.
   * Status: completed with potential for enhancement (as I completed the Odin Project).
   * Link to github page.
   * https://www.freepik.com/free-psd/3d-rendering-interface-icon\_206403553.htm#fromView=image\_search\_similar&page=1&position=2&uuid=97063750-9b1f-40df-88af-5ab4ea56f6d4
   1. **Life Actuarial Cashflow Model App**
   * Develop using Python – as a faster and more flexible alternative tool vs excel model.
   * Develop as a more flexible tool vs Prophet software (the widely used third-party software for life insurance cashflow modelling) – for example the python tool can be linked to excel model develop by pricing team so that they can work alongside each other instead of having a separate Prophet model.
   * Intended to use html/css/js as the UI framework and linked it with python model perhaps through electron.js.
   * Status: on-going.
   * Link to github.
   * https://www.freepik.com/free-vector/isometric-stock-exchange-financial-market-trading-composition\_23926474.htm#fromView=search&page=1&position=0&uuid=b0382649-615f-4cd0-b17a-cf958d67b9a0
   1. **To-Do App**
   * Initially part of the projects in ‘The Odin Project’ curriculum – but had decided to further develop it as a tool to manage my day-to-day tasks (including tasks from my team member).
   * Use html/css as the UI, with JavaScript modules to handle app logic as to create/delete task, changing task status, highlighting card when approaching due-date, summarizing tasks by various metrics.
   * Use electron.js to create desktop-version of the app.
   1. **Data Project: Predicting Insurance Charges**
   * Project from DataCamp
   * Using Python to clean data and build a model to predict customer healthcare cost.
   * test its effectiveness on data from new clients. It's an exciting opportunity to see data science in action in the business world.
   * Status: on-going
   1. **Data Project: Customer Segmentation for Medical Company**
   * Competition from DataCamp <link to competition page>. Using past competition to practice machine learning skills.
   * Using python to propose recommendations to better segmentize customer based on a given data.
2. **Looking to Explore**

* What I’m interested in exploring next:
  + Asynchronous programming (including GPU programming) – to run computation/processing in parallel so that process can be faster and more efficient.
  + Using OpenAI API to develop AI-powered applications.
  + Build a model point generator application – allow insurance company to randomly generate policyholder data based the distribution and range defined for each of policyholder’s profile (e.g. age, gender, sum assured etc).

# Career Page

This is a summary of my key skills, technologies that I have used and exposed to and my work experience.

## Key Skills

### Actuarial Services

I have experience working with all types of actuarial services required by a life insurance/takaful company such as product pricing and profit testing, reserving, embedded/appraisal value, risk-based capital and surplus/bonus distribution.

### Prophet Modelling

I have over a decade of practical experience in Prophet modelling, from model development to model review. Experience includes Asset-Liability Strategy (ALS) library, stochastic modelling, Prophet API, and debugging.

### Financial Reporting

I have experience in financial reporting for internal and external stakeholders, including regional exposure that requires parallel reporting to be performed to meet Local, Group and overseas Business Unit requirements. I was also involved heavily in IFRS17 implementation project.

### Internal Tools Development

Practical experience in using Python for process improvement such as automation scripting and developing Python-based model as a faster alternative to Excel. I am passionate about exploring other technologies and worked on personal projects that has the potential to be implemented in my work.

## <https://www.datacamp.com/completed/statement-of-accomplishment/track/3375f83124faf050a5e69042bed3c37af29ba146>

Technology:

**Actuarial Tools**: Prophet, DCS, Excel-VBA  
**Web and Desktop Development**: HTML, CSS, Node.js, Electron.js, Webpack  
**Programming Languages**: Python, JavaScript  
**Design and Prototyping**: Figma  
**Version Control**: Git, GitHub