

G. Louis Nieuwoudt

An enthusiastic and experienced engineer. Always interested in learning new methods and strategies to go about problems and achieving a suitable solution. Reliable, trustworthy and responsible. Enjoy working with people, and always excited to broaden and share my knowledge.

EXPERIENCE

HoneySuckle Health – Engineering Team Lead

APRIL 2025 – PRESENT

MidnightHealth and HoneySuckle Health Merger further broadening our range of services whilst unifying the fragmented medical industry.

Midnight Health – Engineering Team Lead

APRIL 2022 – Merger with HoneySuckleHealth

Unifying the fragmented medical industry.

StreaksCafe – Co-Founder

FOUNDED MARCH 2025 - PRESENT

Co-Founded a company which was accepted into the ILab accelerator at the University of Queensland with initial investment funds. <https://www.streakscafes.com/>

Boeing Defense Australia – Software Engineer

AUGUST 2018 – APRIL 2022

Working on Fedora 34 using Python, Bash and CentOS based services. Ensuring continuous integration and continuous delivery making use of the Atlassian suite/Jenkins.

Cympire – Cyber Security Software Developer

NOVEMBER 2018 – DECEMBER 2018

Developed a Golden Ticket Hack using a Reverse shell whilst interning for Cympire in **Israel**.

Infosys – Machine Learning Software Developer

NOVEMBER 2017 – FEBRUARY 2018

Developed machine learning models for Infosys in **India**.

EDUCATION

Bachelor's in Engineering (Honours)

MAJORED IN SOFTWARE

UNIVERSITY OF QUEENSLAND

LANGAUGES

ENGLISH / AFRIKAANS / DUTCH (BEGINNER)

FOLLOWING PAGE CONTAINS PROJECTS INFORMATION

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PROGRAMMING SKILLS

- Python
- Dart/Flutter
- Java
- C
 - C++
- C#
- Swift
- JavaScript
- SQL, PL/SQL
- CSS & HTML

TECHNOLOGIES/CONCEPTS

- Machine Learning
- Blockchain
- CI/CD
- GitLab/GitHub
- Network Security
- Data Structures and Algorithms
- TDD
- Coverity/SonarCube
- Linting
- Static and Dynamic test suites
- Jenkins

UI/IDE TOOLS USED

- VSCode
- IntelliJ
- PyCharm
- Unity
- Sublime
- vim/vi
- Unity

CLOUD COMPUTING

- AWS
- AZURE
- GCP

ADDITIONAL EXPERIENCE:

Private Tutoring – Software Instructor

AUGUST 2015 – NOVEMBER 2017

Tutoring students how to program (mainly using Python).

Junior Engineers – Software Instructor

JANUARY 2014 – NOVEMBER 2014

Taught various students how to program using smallBasic.

IN PROGRESS PROJECTS

Cross platform iOS and Android app – Developing multiple apps on iOS and Android as a hobby/side hustle

COMPLETED PROJECTS

Boeing Defense Australia (BDA) -

- https://www.boeing.com.au/content/dam/boeing/v2/australia/currawong/pdf/currawong_battlespace_communications_system_factsheet_compilation.pdf

Developed Machine Learning Model to Predict Future Bank Transactions (Thesis) –

For my thesis I requested to develop my own idea for possible future commercialising as a product. I developed an iOS application making use of a server I set up and backend Machine Learning algorithm I developed to predict users future spending transactions.

InfoSys – Created a machine learning algorithm to help detect day zero attacks and improve the internal network security operations in Bangalore India.

Cympire: Cyber security startup based in Israel – Developed a Golden Ticket hack making use of a reverse shell within a virtual network developed on Microsoft Azure.

<https://cympire.com/>

DoS Attacks against SDN (Software Defined Network) — Converted network packets gained from Wireshark into PNG images which were then used to train a CNN (Convolutional Neural Network) to detect when the SDN was under 'attack'.

Skills Sharpened:

- Python
- Data mining
- Machine Learning
- Deep Neural Networks