Patrick Lam

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Education

- **Rowan University** — Glassboro, NJ
  Bachelors in Computer Science; GPA: 3.646 — *Sept 2021 - Expected May 2025*
  Courses: Design Analysis Of Algorithms, Probability and Statistics.
- **Rowan University** — Glassboro, NJ
  Minor in Economics; GPA: 3.8 — *Jan 2022 - Expected Dec 2023*

Skills Summary

- **Languages**: Java, Perl, Python, Rust, LaTeX, Unix scripting
- **Tools**: GIT, Intellj, Rstudio, TinkerCad, VIM
- **IT**: Soldering, Networking, 3d Printing

Experience

- **Espanso**
  Script Creator — *June 2022 - Current*
  - **Dynamic System Scripts**: Created Scripts that interacted with dynamic real time aspects in the Windows Operating System with the programming language Rust. Real time performance display along with Network configure.
  - **Static Scripts**: Designed and developed email templates along with formatting for essays. Created Scripts to organize and search for files.
- **Web Design**
  Website Maintenance — *December 2021 - Current*
  - **Audio Blog**: Documents process on how to create a headphone and materials needed to create them. Details some issues that can occur when creating them and studies that depict how measured performance correlates with human hearing. Experienced with two driver types being planar and dynamic headphones.
- **Freelance Electronics Servicing**
  Member of IT — *2017 - Current*
  - **Audio and Keyboard Design**: 3d printed and designed own keyboard and headphones including creating speaker drivers and programming onboard controller. Experience with building and repairing audio amplifiers and Digital to Analog Converters. Created a studio along with soldering all the cabling needed and diffusion panels.
  - **Driver Debugging**: Familiar with modifying and debugging Graphics Drivers for both main manufactures Nvidia and AMD to get optimal performance and stability.
  - **Building Computers and Networking**: Worked on building several computers and home server system for central data storage.

Academic Projects

- **Clock Project (C Program)**: Developed font and a real time clock that utilizes synced data for a custom display along with a fun button (December '22)
- **Prim and Kruskal (Data Structures and Algorithm)**: Implemented Various weighted trees and nodes (August '23)
- **Big Mac Index BreakDown (Probability and Statistics)**: Utilized Python programming language specifically Pandas, Scipy, Numpy and Matplots to categorize the data and breakdown the Big Mac Index. Attempted to explain the purpose of the data and how it can be used to gauge inflation, cost of living, and foreign exchange rate of a country or currency. (April '23)
- **BashLab (Bash Scripts)**: Implemented various scripts to navigate through unix and files located on a server.(Nov '22)
- **Singapore Research Paper (Blockchain and Real World Applications)**: Utilized databases to create a study on how countries, mainly Singapore, is reacting to new technology such as blockchain. Established a way in which the technology is being implemented to create a passport for medical care along with the potential scalability of the technology. (April '22)

Extra Activities

- **Participates in Local Orchestras**: 2015 - 2023
- **Commonly browses audio forums and meetups**: 2018 - current
- **Member of Rowan 3D Printing Club**: 2023 - current
- **Member of Rowan ACM Club**: 2023 - current
  - **Web Dev Committee**: Manages and creates the websites for Rowan ACM branch